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(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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[2] The following is a Table of Contents to assist review of the present application:

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ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE
AND ITS CORRESPONDING GPCR:

ANTIBODIES GENERALLY:

5 ANTI-IDIOTYPIC ANTIBODIES:

a. Antibody Preparation

(i) Polyclonal Antibodies

ANTIBODY PREP - POLYCLONAL:

ANTIBODY PREP - ADJUVANTS (ALL ABS):

10 (ii) Monoclonal Antibodies

ANTIBODY PREP - MONOCLONAL:

MOABS - COMBINATORIAL:

HUMANIZED MOAB:

15 ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES
(ALL ABS):

CHIMERICS:

ANTIBODY LABELING (ALL ABS):

(iii) Humanized And Human Antibodies

HUMANIZED AB GENERALLY:

20 (iv) Antibody Fragments

ANTIBODY FRAGMENTS:

(v) Bispecific Antibodies

BISPECIFIC ANTIBODIES GENERALLY:

ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

25 ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

ANTIBODIES - DIABODIES:

ANTIBODIES - OTHER:

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ANTIBODY PURIFICATION GENERALLY:

30 BEFORE LPHIC:

LPHIC:

POST LPHIC:

c. Some Uses For Antibodies Described Herein

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35 GENERALLY:

ASSAYS:

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ASSAYS:

40 COMPETITIVE BINDING ASSAYS:

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AFFINITY PURIFICATION:

(iv) Therapeutics

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THERAPEUTIC FORMULATIONS -STERILE:

THERAPEUTIC ADMINISTRATIONS:

THERAPEUTIC ADMINISTRATIONS – SUSTAINED RELEASE-POLYMERS:
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10 ABSTRACT
 [3]

BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkinstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., *Curr. Opin. Cell Biol.* 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., *Nature* 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., *FASEB J.*, 9:745-754 (1995); Arvanitakis et al., *Nature*, 385:347-350 (1997); Murphy, *Annu. Rev. Immunol.* 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661
5 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

- [15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

[20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide
15 sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8)
20 tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.

[22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino
25 acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

30 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

- [24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.
- 10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.
- [26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to 20 certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of 30 the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
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423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. *See, e.g.,* Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, *e.g.,* covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (*e.g.*, negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "**nonconservative**" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, *e.g.*, lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "**Antagonist**" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. *See* US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (*e.g.*, plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (*e.g.*, a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

- [67] "Conservative changes" to an amino acid sequence, see Analog.
- [68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.
- [69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.
- [70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L).
- 10 By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).
- [71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.
- 20 [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.
- [73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.
- [74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.
- 25 [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.
- 30

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (*e.g.*, in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (*e.g.*, the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] "Oligonucleotide" refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably
5 about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a
10 phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] "Operably linked" or "operably connected" indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For
15 example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] "Orphan receptor" refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] "PCR" or "polymerase chain reaction" refers to an *in vitro* method that uses
20 oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] "Plasmids" refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves
25 autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will
30 be apparent to the ordinarily skilled artisan in view of the present application.

[107] **"Polynucleotide encoding a polypeptide"** indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

5 [108] **"Portion"** or **"fragment"** with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the
10 amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

15 [109] **"P-value"** is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] **"Receptor"** refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect
20 that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

25 [111] **"Recombinant"** refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic
30 oligonucleotide process.

[112] **"Sample"** is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (*e.g.*, the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

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C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (*i.e.*, peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. *See* SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (*e.g.*, fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing
10 appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

- [136] The antigenic peptides and proteins or polypeptides containing them can be purified
15 by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to
20 Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A
PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 **[139] SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 **[141] LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. See U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] IMMUNOFLUORESCENCE ASSAY:

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., Semin. Cancer Biol., 1(3):217-225 (1990); Beck et al., Semin. Cancer Biol., 1(3):181-188 (1990); Niman, Immunol. Ser., 53:189-204 (1990); Endo, Nippon Igaku Hoshasen Gakkai Zasshi (Japan), 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, e.g., keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

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hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

[180] Monoclonal antibodies are obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. For example, monoclonal antibodies can be made using the hybridoma method first described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant DNA methods, or otherwise as desired.

[181] In the hybridoma method, a mouse, or other appropriate host animal, such as a hamster, is immunized as described herein to elicit lymphocytes that produce or are capable of producing antibodies that will bind specifically to the antigenic peptide used for immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103, Academic Press (1986).

[182] The hybridoma cells thus prepared are seeded and grown in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine (HAT medium), which substances prevent the growth of HGPRT-deficient cells.

[183] Preferred myeloma cells are those that fuse efficiently, support stable high-level production of antibody by the selected antibody-producing cells, and are sensitive to a medium such as HAT medium, for example murine myeloma lines, such as those derived from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type Culture Collection, Rockville, MD USA. Human myeloma and mouse-human heteromyeloma cell lines have also been described for the production of human monoclonal antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

- [184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.
- [185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may be grown *in vivo* as ascites tumors in an animal.
- [186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.
- [187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (*e.g.*, by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli* cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).
- [188] **MOABS - COMBINATORIAL:**
- [189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeven et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. *See* Verhoeyen et al., *supra*; *see also* Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 V_{HA}, V_{Hb}, V_{Hc}, V_{Hd}, C_{H1}, V_L, and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, *see* Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeyen et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] BISPECIFIC ANTIBODIES GENERALLY:

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular
5 significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the
10 other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210
15 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to
20 unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

[214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains
30 on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

- 5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

- [218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.

- [219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992) describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers (Suppl.) 7:45-50 (1992).

- [220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., Bio/Technology 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., J. Immunol. Meth. 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., E.M.B.O. J., 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. *See* US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (*e.g.*, less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (*e.g.*, cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (*e.g.*, alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (*e.g.*, a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (*e.g.*, less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

20 [233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, 5 two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. 10 Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, 15 osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne 20 muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, 25 Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, 30 chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (e.g., a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

[241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

[242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 Nature, 144:945 (1962); David et al., Biochemistry, 13:1014 (1974); Pain et al., J. Immunol. Meth. 40:219 (1981); and, Nygren, J. Histochem. and Cytochem. 30:407 (1982).

[243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, Monoclonal Antibodies: A Manual of Techniques, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g., U.S. Pat. No. 4,376,110.* The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious
5 diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol,
10 A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic
15 polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronics, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in
25 macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or
30 following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

5 **[257]** The route of antibody administration is in accord with known methods, *e.g.*, injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., *J. Biomed. Mater. Res.*, 15:167-277 (1981), and Langer, *Chem. Tech.*, 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., *Biopolymers*,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

**[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-
20 POLYMERS:**

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

**[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-
LIPOSOMES:**

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 5 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 µg/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

20 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.

10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of

20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis with the corresponding antigen to confirm the presence and identity of recovered antibody

25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

 EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include

30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO® TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO® Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO® TBS (Tris Buffered Saline-S1968), and DAKO Tween® (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO® TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO® TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO® Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO® TBS, c) add 5 ml of DAKO TWEEN®, and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

[284] Solutions for antibody detection are prepared using Vector® Biotinylated antibody (BA series), Vectastain® ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector® Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

5 [285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70%
10 alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

15 Xylene 5 Minutes
Xylene 5 Minutes
Xylene 5 Minutes
100% Alcohol 2 Minutes
100% Alcohol 2 Minutes
100% Alcohol 1 Minute
20 95% Alcohol 2 Minutes
95% Alcohol 2 Minutes
70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

25 [288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope
30 slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the
35 heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein
10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

- b) at least one of a reagent or a device for detecting the antibody.
16. An assay for the detection of a particular GPCR in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 1-5,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable
5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific
for the particular GPCR present in the sample, to provide an antibody-bound antigenic
peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether
the sample contains the particular GPCR.
- 10 17. The assay of claim 16 further comprising the step of binding the isolated
antigenic peptide or the antibody to a solid substrate.
18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.
19. The assay of any one of claims 15-18 further comprising, prior to the
contacting, obtaining the sample from a human being.
- 15 20. The assay of any one of claims 15-19 wherein the assay is selected from the
group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a
radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay
(ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a
biosensor assay, and a low-light detection assay.
21. An isolated nucleic acid molecule encoding an antigenic peptide according to
any one of SEQ ID NOS. 692-2292.
22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.
23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least
about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.
24. The isolated nucleic acid molecule according to claim 23 wherein the
antigenic peptide is at least about 95% identical to the antigenic peptide.
- 30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the
molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

31. The method of any one of claims 27-30 wherein the method further comprises:

c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

10 38. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

15 41. The method of any one of claims 27-40 wherein the polypeptide is a human protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

25 46. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

30 47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

- a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and
- b) at least one of a reagent or a device for detecting the antibodies.
49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.
50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.
51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.
52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.
53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.
54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.
55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:
- a) an isolated antibody according to any one of claims 49-53, and
- b) at least one of a reagent or a device for detecting the antibody.
56. An assay for the detection of a candidate polypeptide in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 43-47,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

| SEQ ID NO: | LSID | Gene | Source ID | Sequence | Code | SpeciesName |
|------------|--------|----------------------------------|-------------|--|------|--------------|
| 526 | 160397 | Latrophilin-2 | NP_036434.1 | <p> MYSSGCRMRS LWFIIVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDLRL CPGSDVMIE SANYGRITDDK ICDADPFQME NTDCLYPDAF KIMTQRCNR TOQIVVTGSD VFDPGPGTY KYLEVQYECV PYFVPCGTL KAIVDSPCTY EAEQKAGAWC KDPLQAADKI YFMPWTPYRT DILJEYASLE DFQNSRQTTT YKLPNRVDGT GFVVYDGAUF ENKERTRNIV KFDLRTRIKS GEAINYANY HDTSPIRWGG KTDIDLAVDE NGLWVIYATE QNNGMIVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVVRSVYQD NESETGKNSI DYINTRLNR GEYVDVFPFN QYQYIAADV NPDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTHIST TSTTSQKGPM SITVAGSQEG SKGTPPPAV SITKIPPTN IFPLPERFCE ALDSKGIKWP QTRGMMVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFAGDVS SSVRLMEQLV DILDAQLQEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMSSESEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKPLGIKGA GSSIQLSANT VKQNSRNGLA KLVIHYRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RVYLTDPVLF TLPDHDPDNY FNANCSFWNY SERITMMGYWS TQCKLVDTN KTRITCACSH LTNFAILMAH REIAYKDGWH ELLLTVITWV GIVISLVCLA ICFTFCFR GLQSDRNTH KNLINLFIA EFILGIDK TKYAIACPIF AGLLHFFELA AFAWMCLEGV QLYLMLVEVF ESEYSRKKY YVAGYLPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGPVTFIL LNIIFLVITL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFINEETI VMAYLFTFN AFQGVFIF HCALQKKVRK EYKCKFRHSY CCGGLPTES HSSVKASTTR TSARYSSGTQ SRIRRMWNTD VRKQSESSFI SGDINSTSL NQGHSLNNAR DTSAMDITLPL NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMISE LVHNNLRGSS KTHNLELTL VPVIGGSSS EDDAIVADAS SLMHSDNPGL ELHHKELEAP LIPQRTSHLL YQPQKKVXSE GTDSYVSQLT AEAEDHLQSP NRDSLTYTSMPL NRDSYPYSPS SPDMEEDLSP SRRSENEITY YKSMPLNLAG HOLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcggctgg gagacagcga gccagagctc gggggtttgt gcgagagcca cgcgcggggc tggggcgagt ggccggcalt gctgaaggct gcgctctgca acctigaaga gccgctgcat tgaagaggcca gagacagggga gacccggcgg atggcagagc gcggcccccgc ccgctcgcgc gcggccggccc ggcctggcctg agccgcgcga ggaagcggggc tgcctcgcg cgtccatgga gcafcgggaa gggcgaaact ccggagcgc ccgtccctgc gccgctcgcg cggagctcgc aagggggcga gcccgccggc accgcgagg aagaagcccc cgtccagcc ccagagccgg cggccggcgg cggccggcgg agcaalggcc ggcccgctag ggcctcgc gagcagcgc ccggcgagg ccggcgagg agccggcgc agcaalggcc ggcccgctag ggcctcgc cttcctgc ctggggctgc tggctcgc gcggccagc ggccggcgc cgcctcgc cgcggccc tgcagctcgc accggcgacc tcgggtggac tgcctcggga aggggctgac ggccggcc ggaggctca gagggctca ccaagcgcg gatacagta tgaacaacat tactcagtg ccagaagatg cattaaaga cttccitt clagaagcgc tacaatggc gggaacgac cttcttita tcacccaaa ggccctgtct gggtgaaag aactcaaatg tctaagcgc cagataaac agtgaanaac agtaccagc gaagccattc gaggcgtag tctttgcag tctttgcg tagatgcaa ccatattacc tagtccocg aggcagattt tgaaggactt </p> | P | Homo sapiens |
| 527 | 160411 | G Protein-Coupled Receptor GPR48 | NM_018490 | <p> </p> | A | Homo sapiens |

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 aaactactaa ctatgtgg gtttaatag taactgaagg atttggggc ttcatgta gttctcata atgaatact octaatcgc
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 ttaattagac gaaacgggga gtaattga caggaagac ttatgttat ttctatga gctggattat ctgaacctg tgcataaa
 tggaaattc catatctt cccatactia ttuuataa aagagccat tcaatagctc agaggttga cttgtttaa acaagataat

Homo sapiens

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|-----|--------|--|-------------|--|---|-----------------|
| 530 | 160435 | LS160435 Receptor | LR80 | <p>gcttcgccc caacaattc gtgtctctcgt cgcacatcgt gagccgcttg ttctacggca agagcttacta ccacgtgtac aagctcacgc tgtgtctcag ctgtctcaac aactgtctgg accgttgtt ttattactt ggttcccggg aattccagct ggcctctggg gaattattgg gctgcggccg ggttccacaga gacaccttgg acacggcccg cgaagcgctc ttctccgca ggaaccgic cgtgcctcc gagccgggtg cgcacctga aggtatggag gagagccaca ggcocggcct ccagaggcag gagagtgtgt tctagctcc gggggcgag ctgtggagag cggggcgca gcttggaggga tccaggggcg catggagagg ccacggctgc agaggttcag ggaagacagc tgcgtgtct ccaggcacgc caggcccg gttggggaag gttccaggc ttatcttc ccaggcacgt cagaggccac ggttggaggag ggttccagg ctctactac gtaagagaaa caagcaaac ccagcagcg acagggtgt tttatctc ctaggggtgc ctctgctct ctgtgtcagg ggaagcttg tgcaccacg ccgggctaat tttgtatt tttttagag agctgggtgc taccocga gctctttag cactctcac accttccat accggagat ggtatitcaa ccagccac cgcctaccg actcggttc tggatctct ctgtggcgga actggcgcc ccattccag ctcttcc tgtgacatc gtcccttag acactgtcc ataccggagg atggatitc aaocagccc accgcttacc cgaactgggt tctggatc ctctgtggc gaactggcg cccattccc agctcttc ccgtctga tctgtcccta gtgtgttc tgcctctc cattctc caggggtct ggtctcgta gccgggtga cgggaat tctgttatt tcatcagg gacgtgtgt tctgtgtgt ggaatttc ttacagga ggccttggg ctcctcag tcatctac tccgtctc ctccctca cttccctca cacacac ccctgtgc cgaattc</p> | P | Homo sapiens |
| 531 | 160889 | Platelet Activating Receptor Homolog (HP63) | NM_013308 | <p>MQVPNSTGPD NATLQMLRNP AJAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMINLSVTDL MLASVLPFQI YYHCNRHHWV FGVLLCNVVT VAFYANMYSS ILTMCISVE RFLGVLYPLS SKRWRRRRYA VAACAGTWLL LLTALSPLAR TDLTPVHAL GIITCFDVLK WTMLPSVAMW AVFLFTFIL LFLPFVTV ACYTATILKL LRTEAHGRE QRRRAVGLAA VLLAFVTCF APNNFVLLAH IVSRIFYGKS YYHVYKLTLC LSCLNNCLDP FVYVFASREF QLRLEYLGC RRVPRDLDT RRSLFSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaattggcc aagagctct atgtctctt gaaagctgc agcaagctt gctgagctc acagaagata gccacgtgt tttgggttg tttagatgt gattctaga tcaagctgac tgaagctgaa tctgtgtt atacttacc agctacacaa ccttggagtc ttaagaaatt ttcttca atagcagtc atcttact ttcccaaga tgaacacag tctgtctc tgcacgtt ataaagatc ggagccatc acgtatttt ttattgt ttctgtt ggaattatg gaaattgt tgaacgttg gctttatc agaagaatc gaaacacagg tgtgtgaga tcaactaat taattgtt acagccgatt tctgtctac tctgtcalt ccagtgaaa tigtgtga cttgggttg gcaccttga agctgaagat attccatgc caagtacag cctgtctat ctatcaat agttattt caattatc cttagcalt gtcagctatg accgtctct tcaagctgaca cagagctgca agatctacg aatcaagaa cccggatttg ccaaatgat atcaacctt ggtgtgttaa tgtctctt tataaggtt ccaatata gattccat caaagacatc aaggaaga caaattggg tttataaagg aatttgaag aatttggat tttgacaa atttatait tttgacata ttttaaat tctcagccal catttaata tcaattgoc tttatggc acagctctac agaaacaaag ataatgaaa ttacccaat gtaaaaaagg ctctcaaa calacttta gtagaccgg gtaacatc atgttgtt ttccacaca tttccgaat cccgtatacc ctacgacga cagaagatc aactgtatgc tcaaccaggg ttactctt caaagccaaa gaggctacac tgcctctgc tgtgtgaac ctgtgttg atctatct gtaactac ctctcaaaag catctgcct aaggttcat gaaatttg cctacctaa agagaccaaag gctcagaaa aaaaataag atgtgaaaat aatgcataaa agacaggatt ttgtgcta ccaattcgg ccttactgga ccataaagt aattatgt tgaagata aaaaaaaa aaaaagcggc gc</p> | A | Homo sapiens |
| 532 | 160889 | Platelet Activating Receptor | NP_037440.1 | <p>MTNSSFFCPV YKDLEPFTYF FYLVFLVGII GSCFATWAFI QKNTNHRCSV IYLNLLTAD FLLTLALPVK IVVDLGVAPV KLFIFHCQVT ACLIYNMYL SIIFLAFVSI DRCLQLTHSC KIYRIQEPGF AKMISTVWWL MVLIMVPNM MPIKDKEK</p> | P | Homo sapiens |

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|-----|--------|-------------------------------------|-------------|---|---|-----------------|
| 535 | 161214 | Galanin Receptor GalR3 | NM_003614 | <p>GKRRSLDGS ESAKTSIQVT NLVSAIVFLY DSLTGVPILV VSFFSLKSDS APPWMVLAVL WCSMAQTLLL PSFIWSCERY RADVRTVWEQ CVAMSEEDG DDGGGDDDYA EGRVCKVRFD ANGATPGSR DPAQVKLLPG RHMLFPPLER VHYLQVPLSR RLSHDETINF STPREPGSFL HKWSSDDIR VLPQSRALG GPPEYLQQRH RLEDEDEEEE AEGGGLASLR QFLESGVLGS GGGPPRGPGF FREEITTFID ETPLPSPTAS PGHSPPRRPP LGLSPRRLSL GSPESRAVGL PLGLSAGRRC SLTGGEESAR AWGGSWGPNG PIPQLTL</p> <p>tcccagggtgc cgtctgtagt gggagagggc tgaigccagc aacatttacc tgaacagccc agggaggtgtg gggggcgggtg cagtgctgtt ggtcttgcc ctacttcc tgcctgggac agtgggcaat gggctgtgtgc tggcagtgct cctgcagct ggccgggtgt cctggcagga gctggcagc accaggacc tgttcatct caacctggcg gttgtgtacc tctgttcat cctgtgtgc gtgoccttcc aggcacacat ctacagctg gtagctggc tcttggggc cctgtgtgc aaggcgtgc acctgtcat ctactcac atgtacgcca gtagctttac gctgggtgtt gcttccgttg acaggttacct ggcgggtgcg cacccgtgtc gctgcgcgc cctgggcagc ccggglaacg cccggccgc agtggggctg gttgggtgtc tggcggcgt cttctggcg cctactcca gctactacgg cao-gtgc taeaggcgc tggagctgtc cgtggccgcc tgggagggacg cggccggcg cgccttgagc gttggcact tggctggcg ctactgtc cctgtgtgtc tgggtgtgtt ggcctacggg cgcaagctgc gcttctgt ggcggccgtg ggtccggcg gctgtgtc cctgtgtc cggcggggcg cggcggggcg cggggggcg gccatgtg cgtgtgtg gcttactgc gctgtgtg gctgtgtg gctgtgtc cgtgtgtc cgtgtgtc gggtgtgt cttgtgtc agccgggcca cctagctg cggctgtg tcaactgt tggcctacg caactgtc ctaacccg tctgtacg gctgtgtc ggcacttc ggcgggtgt cggccgtgt tggccgtgt ggcggcggacg ccggccacct gcccggcg cctgtgtg gttccggcg gctgtgtg gctgtgtg gctgtgtg gctgtgtg gctgtgtg ctagcggag gctgtgtt ggtgtgtg agggccgga gccaaggag ggaacggc acggccggc ggtgtgtg ggagggat aaacctgoc gctggact cgtgt</p> <p>MADAQNISLD SPGSVGAVV PVVFLIFLL GTVGNGLVLA VLLQPGPSAW QEPGSTTDLF ILNLAVADLC FILCCVPFQA TTYTLDAWLF GALVCKAVHL LIYLTMYASS FTLAAVSVDY YLAVRHPLRS RALRTPRNAR AAVGLVWLLA ALFSAPYLSY YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLRF LWAAVGPAGA AAAEARRRAT GRAGRAMLAV AALYALCWGP HHALJLCFWY GRFAFSPATY ACRLASHCLA YANSCLNPLV YALASRHFRA HFRRLWPCGR RRRHRARRAL RRVRPASSGP PGCPGDARPS GRLLAGGQGP PEPREGPVHG GEAAARGPE</p> <p>atggcgctga ccccgagc cccgagcgtt cctgtgtg tggccggccac cggcagctct gttccggcgcg cgtgtgtg cccacagca accctcaaca gctctgtg cagcccgacc gaggccagct cctgtgtgga cctgtgtg cggggcaca ttggactct gctgtgcg atggcggtg tggcggtgtt gggcagcc taccgtgtg tggcgtgt cgtgtgtc cgtgtgtg cctcaltga cgtgtgtg gtaacctgt cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg taccgtga aggtgtg cttgggggac gttgtgtg gttgtgtg cgtgtgtg tttgtgtg tgcagggc cacttacc gtaacgtca tgaagcagca gctgtgtg gctgtgtg gctgtgtg cactgtgtg cggccaggg gtaacgtca cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg gtaacgtca cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg tctgtgtg cactgtgt gttgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg tgcagggc cctgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg</p> | A | Homo sapiens |
| 536 | 161214 | Galanin Receptor GalR3 | NP_003605.1 | <p>MADAQNISLD SPGSVGAVV PVVFLIFLL GTVGNGLVLA VLLQPGPSAW QEPGSTTDLF ILNLAVADLC FILCCVPFQA TTYTLDAWLF GALVCKAVHL LIYLTMYASS FTLAAVSVDY YLAVRHPLRS RALRTPRNAR AAVGLVWLLA ALFSAPYLSY YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLRF LWAAVGPAGA AAAEARRRAT GRAGRAMLAV AALYALCWGP HHALJLCFWY GRFAFSPATY ACRLASHCLA YANSCLNPLV YALASRHFRA HFRRLWPCGR RRRHRARRAL RRVRPASSGP PGCPGDARPS GRLLAGGQGP PEPREGPVHG GEAAARGPE</p> <p>atggcgctga ccccgagc cccgagcgtt cctgtgtg tggccggccac cggcagctct gttccggcgcg cgtgtgtg cccacagca accctcaaca gctctgtg cagcccgacc gaggccagct cctgtgtgga cctgtgtg cggggcaca ttggactct gctgtgcg atggcggtg tggcggtgtt gggcagcc taccgtgtg tggcgtgt cgtgtgtc cgtgtgtg cctcaltga cgtgtgtg gtaacctgt cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg taccgtga aggtgtg cttgggggac gttgtgtg gttgtgtg cgtgtgtg tttgtgtg tgcagggc cacttacc gtaacgtca tgaagcagca gctgtgtg gctgtgtg gctgtgtg cactgtgtg cggccaggg gtaacgtca cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg gtaacgtca cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg tctgtgtg cactgtgt gttgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg tgcagggc cctgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg</p> | P | Homo sapiens |
| 537 | 161221 | Urotensin-II Receptor (GPR14) | NM_018949 | <p>atggcgctga ccccgagc cccgagcgtt cctgtgtg tggccggccac cggcagctct gttccggcgcg cgtgtgtg cccacagca accctcaaca gctctgtg cagcccgacc gaggccagct cctgtgtgga cctgtgtg cggggcaca ttggactct gctgtgcg atggcggtg tggcggtgtt gggcagcc taccgtgtg tggcgtgt cgtgtgtc cgtgtgtg cctcaltga cgtgtgtg gtaacctgt cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg taccgtga aggtgtg cttgggggac gttgtgtg gttgtgtg cgtgtgtg tttgtgtg tgcagggc cacttacc gtaacgtca tgaagcagca gctgtgtg gctgtgtg gctgtgtg cactgtgtg cggccaggg gtaacgtca cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg gtaacgtca cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg tctgtgtg cactgtgt gttgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg cgtgtgtg tgcagggc cctgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg gttgtgtg</p> | A | Homo sapiens |

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|-----|--------|---|-------------|---|---|-----------------|
| 538 | 161221 | Urotensin-II Receptor (GPR14) | NP_061822.1 | <p>ctgggctgc ttcttgccct tctggctgig gcagctgctc gccagtiacc accaggcccc gctggcgccg cggacggcgc gcatgtaaa ctactgacc acctgctca ctacggcaa cagctgccc aaccttcc ttacacgtc gctacacagg aactaccg accactgcg cggcgccgig cggggcccg gcagcggggg agggccgggg ccgttccct ccctgcagcc ccggcccg ttccagcgt ctggcgccg ctccgtct tctgcagc cagacccac tgacagctc gctggggcc cagcgcccc ggccgacct ggcgcgagg gtccaggcc cccggcgta MALTPESPSS FPLAATGSS VPEPPGGPNA TLNSSWASPT EPSSLEDLVA TGTTGTLSSA MGUVGVVUNA YTLVVTORSL RAVASMYVYV VNLALADLLY LLSIPFIVAT YVTKWEHFHD VGCRLVFLGLD FLTMHASIFT LTVMSERYA AVLRPLDTVQ RPKGYRKLAL LGTWLLALL TLPVMLAMRL VRRGPKSLCL PAWGPRAHRA YLTLLFATSI AGPGLLIGLL YARLARAYRR SQRASFRRAR RPGARALRV LGIVLFWAC FLFWLWQLL AQYHQAPLAP RTARIVNYLT TCLTYGNSCA NPFLYTLTR NYRDHLGRV RGPGSGGGRG VPVSLQPRAR FQRCSGRSL SCSQPQTDLS VLAPAARP APEGPRAPA</p> | P | Homo sapiens |
| 539 | 161249 | G Protein- Coupled Receptor GPR66 | NM_006056 | <p>atggctgca atggcagtc ggccaggggg cacttgacc ctgaggact gaacctgact gacaggagcac tgaactcaa gtacctgggg cccagcaga cagagctgt calgcccac tggccacat acctgtgat ctctgtgtg ggcgctgtgg gcaatgggct gactgtgtg gtcacttgc gccacaagg cctggcagc cctaccaact actacctt cagctgtg gctcgacc tctgtgtgt gctgtggg ctggccctgg agctctatga gatgtggcac aactacct tctgtgtgg cgtgtgtg tctattcc gcacactat gtttgatg tctgtctgg cctagtgct caactgact gctgtgagcg tggaacgtga tgtggccgtg gtcacccac tccaggccag gtccatgg agcggggg accgtgcgc agtctgtgg gctgtgtgg gctgtgcat gctgtctcc ctggccaaca ccagcttga ccggcatccg cagctgcac tgcctgtccg ggggccagtc ccagactcag ctgttgat gctgtctgc ccagggccc tctacaact ggtatgtcag accacggc tctctctt ctgctgccc atggccalca tgaagctgt ctactgtc atggcgctc gactgcggcg ggagagctg ctgctatgc aggaggccaa ggccaggggc tctgcagcag ccaggctccag atacactgc aggtccagc agcacgatc ggggcgaga caagtgaaca agatgctgt tgcctgttc gctgtgtg gctatgtc ggcccgctc cagccgacc gcgtatgt ggcgtcgtg tccagtgga cagatgtgct gcaactggcc ttccagcag tgcagctat ctccggcat ttcttacc tgggctcgc ggccaaccc gctctata gctcaltgc cagccgttc cgaagagact tccaggaggc ctgtgctc ggggctgt gcatcgct cagacccgc cagactcc accgctcag caggatgacc acaggcagca ccctgtga tggggctc ctgggagct gggtccacc cctggctggg aacgatggc cagaggcgca gcaagagacc gatcactct ga</p> | A | Homo sapiens |
| 540 | 161249 | G Protein- Coupled Receptor GPR66 | NP_006047.1 | <p>MACNGSAARG HFDPELNL TDEALRLKYL GPOQTELFMPI CATYLLIFV GAVGNGLTCL VLRHKAMRT PTNYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLGVGG CYFRTLLFEM VCLASVLTNT ALSVERYAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPTNTSLHGR QLVHPCRPV PDSAVCMLVR PRALYNMVMVQ TTALLFFCLP MAMSVLYLL IGLRLRRRL LLMQEAKEGRG SAAARSRYTC RLQQHDRRR QVTKMLFVL VVFICWAPF HADRVMWSVV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VLYSLMSSRF RETTQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQDET DPS atggctaac ttgcaata cactgaaca ttcaatgg gtagcaacg tacagcact gctgagatt actgtaagt cactaatgt aatitcaat actccctcta tgcacaacc tatatccca tattctctc tggctctg gctaacagtg cagctgtg ggttctgtgc cgcitcatca gcaagaaaaa taaagccatc attitcatga tcaactctc tgggtcgtgac ctgtctatg tattatctt</p> | P | Homo sapiens |
| 541 | 161251 | Purinergic Receptor P2Y10 | NM_014499 | | A | Homo sapiens |

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|-----|--------|--|-------------|---|---|-----------------------------|
| 542 | 161251 | Purnergic Receptor P2Y10 | NP_055314.1 | <p>accctccgg atttactatt acatcagoca ccaciggcct ttccagagag ccctttgctt gctctgcttc tacctgaagt atctcaaat gtaigccagc attgtttcc tgactgcat cagcttcaa aggtgctttt ttctctcaa gccctcagg gccagagact ggaaagcgtag gtacatgig ggcacagig ctagctatg gatcgttg ggcacgtgct gttgcatc tocatctg agaagcacag actaaaca caacaagtcc tctgtctg acttggtg acttggtg aagcagaag atgctgctg cgttggtcgg gatattaca gtgtcgtgag tgcaggatt tggatocca gtagatca tgcagtggt tacctgggt accatata actatata ccttgagaca gccaccaag gcttccaag ggatcagga gaggcagaaa gcactgcaga tgggttcat gttgtctga gttctctca tctgttcat tocatctat attaattta ttttacac catgtaaaag gaacatca ttacagtg tccgtgtg cgaatgcac tgaattaca ccttttgc ctgtccctg caagtctg ctagcttg gatccaatc ttattact tatgctca gatttctg accaatc ccgcatgagc agttctgga ccgctccg cctcagagc aaggaagag gttcatcat gatggctaa</p> | P | Homo sapiens |
| 543 | 161293 | G Protein- Coupled Receptor Ls161293 [Herpes virus] | NP_042597.1 | <p>MANLDKYTET FKMGSTST AEIYCNVTNV KFQYSLYATT YLIFPGLL ANSAALWVLC RFISKKNKAI IFMNLVAD LAHVLSPLR IYYTISHHWP FQRALCLLCF YLKYLNMYAS ICFLTCLSLQ RCFFLLKPR ARDWKRRYDV GISAAIWTV GTACLPFPIL RSTDNNNKS CFADLGKQK NAVALVGMIT VAELAGFVP VIIAWCTWK TTISLRQPPM AFQISERQK ALRMVFMCAA VFFICFTPYH INFIFTMVK ETIISCPVV RIALYFHPFC LCLASLCLL DPILYYFMA EFRQLSRHG SSVTRSLMS KESGSSMIG MATTSATSTV NTSSLATTMT TNFTSLTSTV VTTIASLVPS TNSSEYDD LDDVDYEESA PCYKSDTTRL AAQVPALYL LVFLGLGN ILVVIIVRY MKIKNLTNML LLNLAISDLL FLTLFPWMH YIGMYHDWTF GISLCKLLRG VCYMSLSQV FCILLTVDR YLA VVYAVTA LRFTVTTCGI VTCVCTWFLA GLLSLPEFF HGHQDDNDRV QCDDPYPEMS TNVWRRHVA KVIMLSLILP LLIMAVCYV IIRLLRRPS KKKYKAIRLI FVMVAYFVF WTPYNIIVLLL STFHATLLNL QCALSSNLDL ALLITKTAV THCCINPVIY AFVGEKFRH LYHFFHTYVA IYLCYIPFL SGDGEKKEP TRI</p> | P | Equine herpesviri s 2 |
| 544 | 177147 | Neuromedin K Receptor-Like (NK-4R) | NM_006679 | <p>gcagagaacc cgaatgacc cggccacggc ggctcccca cctgcccgt cctgcggcg gcgctgggct cggggcactc gggtctggcc cccatggctt cggccgggg gaaactgagc gcgtggccgg gctgggggg gcccggccgg gccgctga ggaaactgac cctctcccg gccccgaccg cgtcccgct cccggcccg cctggagcgc cctggccgg cccggccccc ggcaccctt tctgcagcc gccctggggc gggcgctctt ggctgctggc ctaggcgcc ggggtggcg gggcggtgt cggcaacctc ggtgtgctt ggatctgtt ggccacaa cgcattgcgga cgggtacca cctctctc gtagaacctgg ccttgcoga cggcgccatg gcggcgctca acggcgctgt caactcatic tacggcgctg accgagaggtg gtaattggc ggcaactact gccgttoca gaaacttc cccatcccg ccgtgtgc cagcatcac tcatgacgg ccatcgctgt ggacagatag atggccatta tgaacccct gaagccaggg cgtctgcca cggccacccg gatcgcat ggaaagcat ggattctggc atttactt gcaattctc agtgtctga ttccaaalc aaagtcagc caggccgtac tcttggctac gttgcagtggc cagaaaggttc aagccaacat ttacgtacc acatgactt catgtctgt gttgactgt ttcttgtt calcatggc atcaattaca ccatagtgg aatcacgtc tggggagggg agatccacgg agaacctgc gaaacgtacc agggagcagct gaaaggccaa cgggaaggttg taaaalga gatcatgtt gttgtgact ttggcctg ttggcctg taltacat acttactt caccgcatc taltcagcag tgaacaggtg gaataatc cagcaggtt accctggcag cttctggctg gccatgagct cgaacatga caacccatc atctactt gttgaataa gagatttct gctggcttca agagggtt cgtctgtgtc ctttactcc acgtctcag ctacagagag ctggagctca aagccaacag gcttccacca atgcgacaga gacagctata cacagtgaca agaatgtagt ccatgagcgt gttattgac tcaacagat ggagacagtg caggctcag caccagaa gaaggagac cagagacgta</p> | A | Homo sapiens |

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|-----|--------|---|-------------|--|---|-----------------|
| 545 | 177147 | Neuromedin K Receptor-Like (NK-4R) | NP_006670.1 | <p>ttataatat taataatcat atgaataat</p> <p>MASPAAGLSA WPGWGWPAPA ALRNLTSPPA PTASPPAPS WTPSPRPAPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIVIVLAHMR MRTVTSNLSFLV NLAFADAAMA ALNALVNFIY ALHGEWYFGA NYCRRFQNFPP ITAVFASIYS MTAIAVDRYM AIIDPLKPRP SATATRVIG SIWLAFLA FPQCLYSKIK VMPGRITLCYV QWPEGRQHF TYHMIIVLV YCFPLLMIGI TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVVKMMIIV VFAICWLPY HIYFILTAIY QQLNRWKYIQ QVYLASFVLA MSSTMNPII YCCLNKRFA GFKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVFDS NDGDSARSSH QKRGITRDVG SNVCSRRNSK STSTTASFVS SSHMSVVEEGS</p> | P | Homo sapiens |
| 546 | 177168 | Cysteiny Leukotriene CYSLT1 Receptor | NM_006639 | <p>atggatgaag caggaaatct gacagatct tctgacacat gccatgacac ttcgcaatc aagtgatc cacttgatc tctatgatc ctgtgtagg ctctttggc aatggcttg tgcctatgt cctataaaa acctatcaca agaatgacg ctccaagta tacaatga attagatc agcagatc ctgtgtgt gacacatg cctcctgt gctatag ttcacaaagg catttgctc tttggtgact tctgtgccc cctcagcacc tatgttgt atgcaacct ctatgtgac atctcttta tgacagccat gaggctttt cgggtgcatg caatgttt tccatgccag aacataat tgggtacaca gaaaaagcc aggttgtgt ggttaggtat ttggatatt gtgaattga ccaatctcc attctaag gccaaaccac aaaaatga gaaaaatga accaaatgaat accaatgct ttgagcccc acaagacaal caaactaaa atcatgttt ggttgtcat tatgtgat cttatcgc cttatcgc cttatcgc ttataatgt ctgtacaca atgatcat tgccttact aaaaaatca atgaaaaaaa atctgtcag tcaataaaa gctatagaa tgaatggt cgtgacgct gctttttag tcatgtcat atcaacgta ccaatcact tcaatgta caaatgaa ctaaacctg tgatctgt ctiagaatgc agaatgctt ggtcatalaacc ttgtctctg ctgcatocaa ttgtgtcti gacacctcc tatattct ttctgggtt aacttagga aaaggctgt tacaicaga aagcatcti tctcagcgt gactatgta cccaagaaaga aggcctctt gccagaaaaa ggaagagaaa tatgaagt atag</p> <p>MDETGNLTVS SATCHDITDD FRNQVYSTLY SMISVVGFFG NGFVLYVLK TYHKSAFQV YMINLA VADL LCVCITLPR VYVHKGIWL FGDFLCRLST YALYVNLVCS IFFMTAMSF RCIAIVFPVQ NINLVQKKA RFVVCVGIWF VILTSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVLVLH YVSLFVGFIL PFVIVVCYT MILTLKKS MKKNSLHKK AIGMIMVVT AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCFF DPLLYFFSGG NFRKRLSTFR KHSLSVTVV PRKKASLPEK GEEICKV</p> | A | Homo sapiens |
| 547 | 177168 | Cysteiny Leukotriene CYSLT1 Receptor | NP_006630.1 | <p>ccacgctcc gccggctgca cggctgcacc ggcagcggct caggtccgg ctctctcc gctgcagcag ccgctgccc ggccccatg ggcctggatc cggcccccgc cccctggca ccgctgtctc tggcccccgc cccggcccgc cggaccatgc gctggggccc ccacggggaa accgacccc gccaaaggcc cgcataagagc agctccccc gcccggggccc ctcccggccc ccagctctc ggcccggccc ctgcccgcgc tcccggagcc gcgtgagcti gcggggggccat ggaagcgcgc cgcggccgac ggccgctgaa cgtctggggg gcgctggggc gcgctggggc ggccgggggc ggggcgcgc gcctctgggc agcctgggac gcggctgctc ccgctgcat ggctgtctc atcggtggca cgggtgtggc caacggcgti gcaatgctc ccttggtg cgactgagc ctccgaccc agaaacacti ctctgtc aacctggca tctcgacti cctcgtcggc gctctgca tccacatgta tgaacctac gctgtgacag gccgctggac ctgcggccc gctcggacti cctcgtcggc gctctgca taactgtgt gacactctc tgcctcaac atcgtgctca tcaatgacac ccgctctc tgggtcaccc gaggcgtc ataccggccc cagcaagggt acacggggc ggcaatgggc aagaatgctc tgggtgggt gctgggctc ctgctgacg gaccagccat cctgagctg ggttacctgt ccggggggcag ctccatccc gaggggcact gctatgccga gttctctac</p> | P | Homo sapiens |
| 548 | 177191 | Histamine H3 Receptor | NM_007232 | | A | Homo sapiens |

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|-----|--------|--|-------------|--|---|-----------------|
| 549 | 177191 | Histamine H3 Receptor | NP_009163.1 | <p>aactgggiact tctcatcaac ggccttacc cgggaggtct ttacgctt cctcagcgc accttctta acctcagcat ctacctgaac atccagaggg gcaccgcct ccggctggat ggggctcgag aggcagagccgg cccggagcc cctcccgagg ccagggccctc accaccccca ccgcctggct gctggggctg cgggcaaaag ggggcaicgggg aggcacagcc gctgcacaggg tatggggggg ggagaggggg ccgtaagcgc gaggccgggg aggcagacct cggggggggg gggggggggg gctcggggg ttacaccca tcagctccg gcagctctc gagggggcat gaggggccgc gctcactcaa gagggggctcc aagccgctgg cgtctcggg ctggctggag aagcgcatga agtagggct ccagagctc accagcgt ttggggctgg tcggggagag aagggggcca agtcgctggc cgtcagctgg agcactgg gggctctgg gggccacac accgctgctga tgaatccg gggccgctgg catggccact ggcctcciga ctacgggac gaaacctct tggggctct gggggccaac tgggctgta acctgctct ctaccttg tgcacaca gctccggccg ggccttacc aagctggctt gcccacagaa gctcaaaac cagcccca gtacctgga gcatctgg aagtagggg ccacacag ccctccctc ccacgctct ctacggccag gctccggg catctggccc tgcggccc taccggctc gttcccgag gggggggccc ctacggct gggggctct ctatggcca cggcagggcc cctggcatgg aggcgcctc cggggggg cagagggccc ctacggct gggggctggg cggggggg ggggggccc ccacattt gggctccacg ggggggggaca gctggggg ccagagag cggccaccc cctggctggg ccacccctc gcagttag gttgggttc ttccaaagc aagcactgg gttggctca gggctccgg ctagcagtt tggcttggca cgggcacaca cctgcacac cctgcacac gtcctctcc cgggacagc ccagggacact gcttggctg ccttctgt ctgcataag cctcagctt ggccttca ccctctcc caccactt cctggccc aagggica agggggccca gggaacctga agctgtctc tggcttca ttctgggt ttccagaaag atgaagaa gaaactgt gtaacttga tggctggg atgtaaatc aagagagaca aaattgctga ggaagctcagg gctggatgg cagggtgggg ctcacagcc ctctccctc cgtaaaggct tccggctgag cgtggcagc tgccttggc caccgcctc cggggctcac accagccctg gggggccaagc ctggcccggc cactgttt gctacacag gactctggg ggttgggg aggggggggg ccggctgggg ccggggggct caaggcggc agggggggc cagagggagg gggggggcag gggccggctc gcaatggct gggcccccgt ggcagggct ctgcagctc ctggctgt gcccgtcgg cggccctgca aaocggggg tcaaaiaaa gggatttt taaaaaaa aaaaaaaa aaaaaaa</p> | P | Homo sapiens |
| 550 | 177387 | G Protein- Coupled Receptor ORF4 | NM_020155 | <p>MERAPPDGPL NASGALAGDA AAAGGARGFS AAWTAVLAAL MALLIVATVL GNALVMLAFV ADSSLRTQNN FLLNLAISD FLVGAFCIPL YVPYVLTGRW TFGRGLCKLW LVVDYLLCTS SAFNVLISY DRFLSVTRAV SYRAQQQDTR RAVRKMILLVW VLAFLYGPA ILSWEYLSGG SSIEGHCHYA EFFYNWYFLI TASTLEFFTP FLSVTFNLS IYLNQRRTR LRLDGAREAA GPEPPEAQP SPPTPPGCWG CWQKGHGEAM PLHRYGVGEA AVGAEGEAT LGGGGGGGSV ASPTSSSGSS SRGTERPSL KRGSKPSASS ASLEKRMKMV SQSFTQRFRL SRDRKVAKSL AVIVSIFGLC WAPYLLMII RAACHGHCV P DYWYETSWL LWANSAVNPV LYPLCHHSFR RAFTKLLCPQ KLKIQPHSSL EHCWK</p> <p>agcgggcgt gcccgaacc gaegggtac agcgggctt cccctcac ccagagaga calgaacagc cgaaggccagg gagtcctc ctggggctc tgcattccc cactctggc ttggggtag gcccagggag gaggacccc caacccctat ccggctcgc ctggagaaaa ggaagctgcc ttccagccc ctgagtgagg gggctggggg caggctgct ggttcccca aggggcaaggg tctctgtt gaggaggggg gctctgacg cacaactct ttctctga gggcccccac tccctctg cactctcaa ttccacccc tccgattia ttccctgt ccggcgaca gtcctctt gctgtctcc gggattcagg cctccctcc tgacalgag agtaacctt ctggctgtt gctgtgac gggctgggt ctggcgctc acctgtgt accctgggg tgacagctc ctacacac ctgtagccc tctctctt cccgttat gcccagctt gggctgggt tctgttaggg cacaagcgtc tcagctatca gacgggtc ctggccctt gctgtctc gggccgtt cgtaccaccc tctctctt ctactccga gatacccc</p> | A | Homo sapiens |

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|-----|--------|-------------------------------------|-------------|--|---|--------------|
| 551 | 177387 | G Protein-Coupled Receptor ORF4 | NP_064540.1 | <p>gcgcacaacg cctggggccc ttgccctctt ggcttctcta ctgcctgcgc gcttcttcac cttagcgtct atgaaactct actttggocca ggtggtgttc aaggccaagg tgaagcgtcg gcgcgagatg agccagggct tgcctgctgt ccgaggggccc ttgtgggggg cctcgcgtct ctctctgtg gtagacgtgc tggtagctgt gctctccat cggcgcgccac agccctggggc cctgtgctt gtcccgctcc tggtagcga ctccctgttc gtcactgtcg cgtctgctct tgcctgcttc cctgcctcg tcgccagcgg gcgcctoca ctgacalcia cctggggccc aaggtagggc tgcagcacgt algcccagg gctttggg tctctggca gcggttcta ggggttagag</p> <p>MESNLGLVP AAGLVPALPP AVTLGLTAAY TTLVALLFFS VYAQLWLVL</p> <p>YGHKRLSYQT VFLALCLLWA ALRTLFSFY FRDTPRANRL GPLPFWLLYC</p> <p>CPVCLQFFTL TLMNLYFAQV VFKAKVKRRP EMSRGLLAVR GAFVGASLIF</p> <p>LLVNVLC AVL SHRRAPQWAL LLVRVLVSDS LFVICALSLA ACLCLVASGR</p> <p>PPLASTWRPR</p> | P | Homo sapiens |
| 552 | 180956 | Lysophosphatidic Acid Receptor Edg7 | NM_012152 | <p>ctctttaa ttcttcta ggaattcac ttctctoca caatgaalga ggtcactat gacaagcaca tggactttt ttataatagg agcaaacatg atactgtcga tgcattgaca ggaacaaagc ttgtgtgt ttgtgtgt gggacgtttt tctgcctgtt tatttttt tctaatctc tgtctatcgc ggcagtgalc aaaaacagaa aatttcaitt tcccttctac taccctgttg ctaatttagc tgcctgcgat ttctcgtg gnaattgcta tgaattctg algtttaaca caggccaggt ttcaaaact ttgactgtca accgctgggt tctcgtcag gggctctgg acagtagctt gactgtctcc ctacccaact tgcctgggtat cgcctggtag aggcacatgt caatcagag gtagcgggtc catagcaacc tgaaccaaaa gagggtgaca ctgctcatit tgcctgtcg gggcatcgcc attttatgg gggcgctccc cacactgggc tggaaatgoc tctgcaacat ctctgctcgc tcttcctgg ccccatitia cagcaggagt taccctgtt tctggacagt gtocaaactc algcccttcc tcatatgt tgggtgtac ctggcgatct accgtgtact caagaggaa accaaagct tgcctcgcga tacaagtggg tccatcagcc gccggagagc accatgaag ctaatgaaga cgggtatgac tgccttaggg gctttgtgg tatgtgagac cccgggctcg gtaggtctgc tctcagacc cctgaactgc aggcaggtgt gcgtgacga tggtaaaagg tggttctgc tgcggcgt gctcaactcc gtctgaacc ccatcaltcia ctctacaag gacgaagaca tgaatggcac catgaagaag atgaatgct gctctctca ggaagaacca gaggaggcgc cctctggcat cccctccaca gtcctcagca ggaatgaac aggcagccag tacaatagg atagtattag ccaagggtgca gctcgaata aaagcattc ctaaaactg gtagctctc gggccacoca ggtatgact gcttagg</p> <p>MNECHYDKHM DFFYNRSNID TVDDWTGTLK VVLCVGTFF CLFIFFSNL</p> <p>VIAAVIKNRK FHEFFYLLA NLAAADFFAG IAYVFLMFT GPVSKTLTVN</p> <p>RWFLRQGLLD SSLTASLTNL LVIAVERHMS IMRMRVHSNL TKKRVTLIL</p> <p>LVWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRYLVF WTVSNLMAFL</p> <p>IMVVYLRIY VYVKRKTNVL SPHTSGSISR RPTPKMLMKT VMTVLGAFV</p> <p>CWTPGLVLL LDGLNCRQCQ VQHVKRWFL LALLNSVNP IYSYKDEDM</p> <p>YGTMKKMICC FSQENPERRP SRIPSTVLSR SDTGSQYIED SISQGAVCNK STS</p> | A | Homo sapiens |
| 553 | 180956 | Lysophosphatidic Acid Receptor Edg7 | NP_036284.1 | <p>atgggcccgc gcgagggct gctggcggggt ctctggga tggactggc cgtggcgctg ctatccacg cactgggt gctttgtgc gctacacgcg ctgagctccg cactcagac tcaaggctcc tctgtgtgaa tctgtcttg gggccatgc tgcctggcg gcctggacaatg ccttcaacg tgcctgggt gtagcgcggg cggacaaccgt cggcgcccgcc gcctagccaa gtcattggct tcttggaac ctctcggcg tccaacggcg cgtcagacgt gggcgcgctg agcgcgagacc agtggctggc agtggggcttc ccactggct accggagac cctggcgacc cgtctagccg ccctgtgct gggctgtggcc tggggacagt cgtctggctt ctaggcgct gcaattggct gctcgtgggt tggctaacgc agcgctctcg cgtctgttc gctcgtcccg cggcccgagc ctgagcgtcc ggccttcgca gcttcaacc ccacgtcca tggctggggc ttgggtggc cgtctggcgg gctctggctc acctcgctcc aggtgacacg ggtggcagc agacactggc agcgcatgga caccgtcac atgaaggcg</p> | P | Homo sapiens |
| 554 | 189873 | G Protein-Coupled Receptor GPR78 | AF411107 | <p>atgggcccgc gcgagggct gctggcggggt ctctggga tggactggc cgtggcgctg ctatccacg cactgggt gctttgtgc gctacacgcg ctgagctccg cactcagac tcaaggctcc tctgtgtgaa tctgtcttg gggccatgc tgcctggcg gcctggacaatg ccttcaacg tgcctgggt gtagcgcggg cggacaaccgt cggcgcccgcc gcctagccaa gtcattggct tcttggaac ctctcggcg tccaacggcg cgtcagacgt gggcgcgctg agcgcgagacc agtggctggc agtggggcttc ccactggct accggagac cctggcgacc cgtctagccg ccctgtgct gggctgtggcc tggggacagt cgtctggctt ctaggcgct gcaattggct gctcgtgggt tggctaacgc agcgctctcg cgtctgttc gctcgtcccg cggcccgagc ctgagcgtcc ggccttcgca gcttcaacc ccacgtcca tggctggggc ttgggtggc cgtctggcgg gctctggctc acctcgctcc aggtgacacg ggtggcagc agacactggc agcgcatgga caccgtcac atgaaggcg</p> | A | Homo sapiens |

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|-----|--------|---|-------------|--|---|-----------------|
| 555 | 189873 | G Protein- Coupled Receptor GPR78 | CAC3404.1.1 | <p>tcgccgigt cgcggaccig caccocagig tgcggcagcgg ctgcctcacc cagcagaagc ggcgcgcgccca ccgcgcacc aggaagatig gcatigtat tgcgacctic ctatctigt ttgcoccgia tgcctgacc aggcctggcgag agctctgigoc cttcgtacc ggaagccoc agtgggggcat cctcagcaag tgcctgacct acagcaaggc ggtggcccgac ccgttcacgt actctigt ccgcggcgcc ttccgccaag cctcggccgg catggctgac cggctctga agagaaccoc ggcgccagca tcacccat agactictt ggaigtggcc ggcctggcgc accagctigt gaagagaacc ccgcgcocag cgtccacca caacggctt gggacacag agaatgatt ctgcctggag cagacacat ga MGPGEALLAG LLVMVLAVAL LSNALVLLCC AYSaelRTRA SGVLLVNL SL GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSVAAL SADQWLAVGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGY S SAFASCSRL PPEPERPFA AFTATLHAVG FVLPLAVLCL TSLQVHRVAR RHCQRMDTVT MKALALLADL HPSVRQRCL QKRRRRHRAT RKIGIAIATF LICFAPYVMT RLAEVPEFVT VNAQWGLSK CLTYSKAVAD PFTYSLRRP FRQLAGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p> | P | Homo sapiens |
| 556 | 189874 | Neuromedin U Receptor 2 | NM_020167 | <p>atggaaaaac tcagaatgc ttcttgatc taccagcaga aactagaaga tccattccag aaacacctga acagcaccga ggagatcttg gctctctt cgcgaccctcg gcgcagccac ttctctcc ccgigtctt ggtgltatg ccaattttg tgggtggggg cattggcaat gtcttggtt gcttggtgat tctgcagcac caggctatga agagccac caactctac ctctcagcc tggcgcttc tgacctctg gtctctctc ttggaaigcc cctggaggtc tatgaatgt ggcgaacta cctctctg ttcgggcccg tggcgctga ctcaagagc ggcctcttg agacgtgtg ctgcctcc atctcagca tcaccacct cagcgtggag cgtcagtg ccacttaca ccgttccgc gccaaatgc agagcacccg ggcgcgggccc ctacggatcc tcggcactgt ctggggctc ttccgtctt ttccctgc caacaccag atccatgca tcaagtcca ctctccccc aatgggtccc tgggtccagg ttggccacc tgaaggca tcaagccat gggatctac aatttca tccagggtcac ctctctca ttctactcc tccactgac tgcattcgt gtctctact acctcctg actcagacta aagaagaaca aatcttga ggcagatga gggaatgcaa atattcaag acctgcaga aaatcagta acaagatgt gttgtctg gttatgtgt ttgtatctg ttggccccc ttccacatg accgacttt ctacgctt gggagagagt ggaatgaatc ccgtggctgt gtttcaacc tcttccatgt ggtgtcaggt gtctctct acctgagct agctgcaac ccaattatc ataacctact gtctgcgcg ttcaggcgag cattccagaa tgtctct ttttocaca aacagtggca ctccagcat gaaccacgt tgcacctgc ccagcggaac atctctga cagaatgcca cttggtag ctgaccggaag atatagttcc ccaattcca tgcagtcac atctcacc ctctcacc ccaacagccc tctctaga acagatga agaacaact atcaagctt ccacttaac aaaaactga</p> | A | Homo sapiens |
| 557 | 189874 | Neuromedin U Receptor 2 | NP_064552.1 | <p>MEKLQNASWI YQQLKLEDPFQ KHLNSTEY L AFLCGPRRSH FFLPVSVVYV PIFVGVIGN VLVCLVLOH QAMKTPTNYY LFLSAVSDLL VLLGMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ILSTTVSVE RYVAILHPFR AKLQSTRRA LRILGIVWGF SVLFLPNTS IHGKIFHYFP NGSLVPGSAT CTVKPMWY NFIIQVTSFL FYLLPMTVIS VLYYLMALRP KKDKSLEADE GNANIQRPCR KSVNKMFLVL VLVFAICWAP FHIDRLFSF VEEWSESLAA VFNLVHVVS G VFFYLLSAVN PIYNLLSRR FQAAFNQVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP QSSMHNHSHL PTALSSEQMS RTNYQSFHN KT</p> | P | Homo sapiens |
| 558 | 189884 | G Protein- Coupled Receptor | LG94108 | <p>atgtctggcag ctgccttgc agacttaac tccagcagca tgaatgtgc ctttgtcac ctccacttg ccggaggga cctgcctct gattccagg actggagaac catcatccg gctctcttg tggctgttg ccttggtggc ttggtggga accgtgtgt</p> | A | Homo sapiens |

Ls189884

gattggcatic ctcttccaca atgctttgggaa agggaaagocaa locaigatoc acttccatgat tctgaatcic agccctgggctg atctctccct
ccctgctgttt tctgcaactta tocgagcttac gggctactoc aaaaagtgttt gggatctagg cttggtttgct tgcgaagtctt ctgactggtt
tatocacaca tgcaltggcag ocaagagctt gacaatgctt gttggggcaca aagatgctt calgtatgca agtgaocacag
ocaaagcaagt gtagtatccac aactacacaa tctgtgcatg gctgggtggcc atctggactg tggctagocct gttaccccttg
ccggaaatgg tcttiagcac catcaggcat calgaagggtg tggaaatggg cctctggtgat gtaaccagctg tggctgaaag
gtttatgctg atgttttgta agctctacoc actcttgcca ttggccttc cattatttt tgcagcttt taitcttgga gtagcttaiga
ccaaatgaaa aaacggaggga ctaagactca aaatcttga aaccagatac gctcaaaagca agtcaacagtg atgctgcttga
gcaattgccat calctctgct ctctgttgcc tccccgaag ggttagcttg cttgggtgat ggcacatgcaa ggcctgcagggc
ccggcccccac cacaaggttt calagccctg tctcaagctt tgaigtgtt calctctca gcaaatcttc tcaatttct tgtgagtgcg
gaaaggttca ggggaaggctt gaaaggttga tggaaatgga tgaataccaa aaaaatccca actgtctcag agtctcaagg
aaatcagctt gggcaactcag agggctcttc tgaacaggtt ccaatccag aatccccagc atccatacca gaaaaagaga
aaacacagctc tccctctct ggcataaggga aaactgagaa agcagaagat cccatctctc ctgacgtaga gcagttttgg
catgaagggg acacagctcc tctgtacag gacaatgacc ctatcccttg ggaacatgaa gatcaagaga cagggggaagg
tgttaaatag

P Homo sapiens

P

559 189884 G Protein-Coupled Receptor 67 Ls189884 ENSMPRT11140

MLAAAFADSN SSSMNVSAF LHFAGGYLPS DSQDWRITP ALLVAVCLVG
FVGNLCVIGI LLHNAWKGP SMHSLILNL SLADLSLLF SAPIRATAYS
KSVWDLGWFF CKSSDWFIHT CMAAKSLTV VVAKVCFMYA SDPAKQVSIH
NYTIWSVLVA IWTVASLLPL PEWFFSTIRH HEGVEMCLVD VPAVAEEFMS
MFGKLYPLLA FGLPLFFAF YFWRAYDQCK KRGTKTQNLN NQIRSKQVTV
MLLSIAISA LLWLPEWVAW LWVWHLKAAG PAPPQGFIAL SQVLMFSISS
ANPLFLVMS EEFREGLKV WKWMITKKPP TVSESQETPA GNSEGLPDKV
PSPESPASIP EKEKPSPPSS GKGKTEKAEI PILPDVEQFW HERDTPVPSVQ DNDPIPWEHE
DQETGEGV

A Homo sapiens

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560 189895 G Protein-Coupled Receptor GPR61 NM_031936

atggagctct caccatccc ocagatca gggaaactct ccacttggg gtagggctcc caaacccacag gtccctctac
tgccagtggg gtcccggagg tggggctacg gtagtgtgt tgggaatctg tggccctctt cttaatgctc ctgctggact
tgactgtgt ggcctggcaat gcccgttga tggccgtgat cggcaagacg octgcccctc gaaaatgt ctctgtctc
cactctgccc tgggtgacct gctggctgccc ctgaacctca tggccctggc calgtctcc agccctggccc tcttgacca
cgccctctt ggggaagggg ccgcccgcct ctactgtt ctgaagcgtgt gctttgtcag cctgggccaic ctctgggtgt cagccatcaa
tgtggagcgc tactattacg tagtccaccc catgctgtac gagggtgcgca tgaagctgggg gctgggtggccc tctgtgctgg
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gtccccccac actgttact ccagtgtagc cacaatgtct actgccagct ttgttggtgt gctttgtcgt tctttact tctgtgccc
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| 565 | 189901 | G Protein- Coupled Receptor Ls189901 (HEOAD54) | CAC38933.1 | ggccaccgg gcagctggcc ccacgggaagc acggctcagc acgtgggtggg gcgcacacac ctccaggtag cgggtgagtg c-gatggctgt gaggaagaca acgctggccg tgcggttggt ggacagcatg aagaagttga ctctgcaggc agcagoccca aagccocagg tctatggag gaggtagtag tccagcggga gggggcagggt gctatcagg aggaagtcag cggccaccag gctgaccagg aacaccgtgt tggaggtcca gggccgcgfg tggatgcaga agatgaagag gggccaactg ttcccacca ggccaggagc aaactcagg gccaggatg ggcagggaa ggcaagacac agcgaggag aggtggggg ggcaggggcc ccaggagcc ccccccagt ggtaaaggc | P | Homo sapiens |
| 566 | 189904 | Purinergic Receptor P2U2 (GPR91) | NM_033050 | MELHNLSPS PSLSSVLPP SFSPSPSSAP SAFTTVGGSS GPCCHPTSS LVSFLAPIL ALEFVLGLVG NSLALFICI HTRPWTNTV FLVSLVAADF LLISNLPLRV DYLLHETWR FGAAACKVNL FMLSTNRTAS VFLLTAIALN RYLKVVQPHH VLSRASVGA ARVAGGLWVG ILLNGHLL STFSGPSCLS YRVGTPKSAS LRWHQALYLL EFLPLALIL FAIVSIGLTI RNRGLGGQAG QRAMRVLAM VVAVYTICFL PSIFGMASM VAFWLSACRS LDLCTQLFHG SLAFTYLSV LDPVLYCFSS PNFHQSRAL LGLTRGRQP VSESSYQPS RQWRYREASR KAEIGKLV QGEVSLEKEG SSQC ggataggt taactagca gaattgtg aacatacag acatgctggg gatcggca tggaaigcaa ctgcacaaaa ctggctggca gcagaggctg cccggaaaaa giataccti tccatttiti atgggattga gttgcttg ggagccttg gaaataccat tgtgtttac gggtacatct tctcttgaa gaactgggaac agcagaala ttatctct taacctct gtcctgact tagctttct gtgcaccc ccatgctga taagggtia tggcaatgga aactggatal atggagcgt gctctgcata agcaaacgat atgtgttca tggcaacc talaccaga ticttcti cactttatc agcalagalc gatactgat aattaagiat cctttccag aacacctct gcaaaagaaa gagttgcta tttaatc cttggccat tgggttiag taacctaga gtiactacc alactcccc ttataatoc tgttataact gacaatgga ccacctgtaa tgaattgca agttctggag acccaacta caactcatt tacagcatg gtctaaact gtggggctt ctattocic ttntgtat gtgttctt tattcaaga tigtctct cctaaagcag aggaalaggc aggtgtctac tgcctgccc ctgaaagc ctctcaact ggtcatcag gcagtggttaa tctctctgt gcttttaca cccatcag tcatcgga tggaggalc gcttcagcc tggggagtg gaaagcagat cagigcatic aggtgcat caactctti tacatgta cagggctti ggctcttg aacagtgca tcaacctgt ctcttiti ctttgggag atcactcag ggacatgctg atgaatcac tgaacacaa ctcaaatoc ctatctct ttagcagatg ggctcatgaa ctctacti cattcagaga aagtgagg gcttggaa cagattgic tacatgaa tctgaagcc agthacaggt tgccttaact catagacalc aatcagagag tgtcacagat ttaacctga tctaaagca agttgtacc agagtatg aaaaagatgg gacgacaaga atgtactgt ticttctct aagaattgaa aggagtgaa ctgocctatg ttgggcatg taactccaaa atactaggta gtaagggt tictcaatca gtcaaaaat ggaaatata, taagcaaca agttgtctg attgtatc tggcatgatt gtaaaaaa aaaaaaaa MAWNATCKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTV VYGYFSLKN WNSSNYLFN LSVSDLAFLC TLPMLIRSYA NGNWYGDVL CISNRYVLHA NLYTSILFLT FISIDRYLII KYPREHLLQ KKEFALLSL AIWVLVLEL LPILPLINPV ITDNGTTCND FASSGDPNIN LIYSMCLTLL GFLPLFVMC FFYKIALFL KQRNRQVATA LPLEKPLN LVIMAVVIFSVL FPTYHVNRNV RIASRLGSWK QYQCTQVWIN SFYIVTRPLA FLNSVINPVF YELLGDHFRD MLMNQLRHNF KSLTSFSRWA HELLSFREK | A | Homo sapiens |
| 567 | 189904 | Purinergic Receptor P2U2 (GPR91) | NP_149039.1 | ggagccatg ctocctgggc tcttcgggg gcgcgcgcgc gctggccctc gcttgaggca aaaggactct tgttgaagat ggactcatt gtccatttc cagaatgat ttcaagccc alcaatggga cctgatactg ctgtctg tgaagact tgaagaaac cigcatctct gctgcatct tccatctac tgaaaacatg gctctcgg caggtgtgac tgcgttccat accgggacat ccaacacaac | P | Homo sapiens |
| 568 | 189920 | G Protein- Coupled Receptor GPR63 (PSP24) | NM_030784 | | A | Homo sapiens |

beta)

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|-----|--------|---|-------------|---|---|--------------|
| 569 | 189920 | G Protein-Coupled Receptor GPR63 (PSP24 beta) | NP_110411.1 | attgtctgtg tatgaataca cctacatgaa tatiacacac cctccacacat tccagcatcc tgaacctcagt ccatigtcta gatatagtt tgaatacatg gctccacatg gtttagctc ctgaccctg aatagtagac ctgtgcccac aacacacgca gcatitaaaga gactaaacti gactcttcag atcacccctt ctgctataat gatatcatt ctgtttgtgt ctctttctgg gaacttggt gtttgcctca tggtttaaca aaaagctgoc atgaggctcg caataaacat cctccttgcg agcttagct tgcagacat gttgcttgca gttgcttgca tgcctttgc ccttggtact atcttacta cccatgtggat ttgtggaaa tctctgta gggatctgc tatgttttc tggttattg tgaagaagg agtagccatc ctgtcatca ttatgcataga taggttccct atattagctc agaggcagga taaagctaac ccatatagag ctaggctct gattgcatgt tottgggcaa ctcttttg tgaagcttt ccttagccg taggaaacoc cgaacctgcag ataccttccc gactcccca gttgtgtt ggggtacaaa ccaatccagg ctaccaggct tatgtgatt tgaattct catctttc ttcatacct tcttggtaat actgtactca ttatgggca tactcaacac ccttcggcac aatgctctga ggaatccatag ctaccctgaa taaaacacti gacttacca ctattgat tctcttct gttctatg tctgctggc ccttcacac atgagcatg ttgtggcaac ggtatagcc tgaagccaggc cagcaaacgt ggtctcatga gttgcagag accttccag atgagcatg acatgggctt attcagtagg cactttact atcagcacaa cttttttgag attagcact ggtactgtg gctctgtac ctcaagctc ttgtggcaac gctgtactac tactgggaga ttatgaat ccatgtatgt tgcctggaca tgccttcaag gtttgcgc agtccctgg tcacacaaa ggaaggatac gttctatgtc tgcctatgtc tgcctggagc atcgagcgt ggtgtgaata ttggaaactg ctgacattt ggggtatgct tgtcttat tgcattgaa ttcttctt catagccct cactttat tttttata gggtttgt tcaatgtgt gtagagcagtg taaagaaga atgtgaata tagttctgt accaagata aataatagga aagtgattac aaatattac tcaagggtc aatagaatc ctaattag ggtgaggaga cttttttg gtttgggt ttctctga ttgatttgt ttcatagtg ggaatcagga ttgtcttta ttgagccgc agttacatg aatttaggt gttctgtg ctgctaaagt atgtattt gagtattaca agacttttt ttcttgaa gacactgtg cttttact cacatggag cc | P | Homo sapiens |
| 570 | 189945 | G Protein-Coupled Receptor Dj287g14.2 | AK027843 | MVFSAVLTAF HTGTSNTTFV VYENTYMNIT LPPFQHPDL SPLLRYSFET MAPTGLSLLT VNSTAVPTTP AAFKSLNLPL QITLSAMIF ILFVSFLGNL VVCLMVYQKA AMRSAINLL ASLAFADMLL AVLNMFPALV TLTRWFIF KFFCRVSMF FWFVIEGVA ILLISIDRF LIIVQRQDKL NPYRAKVLIA VSWATSFCVA FPLAVGNPDL QIPSRAPQCV FGYYTNPYQ AYVILISLIS FFIFLVILY SFGILNLTNR HNALRIHSYP EGICLSQASK LGLMSLQRPF QMSIDMGFKT RAFTTILLF AVFIVCWAPF TTYSLVATFS KHFYVQHNF EISTWLLWLC YLKSALNPLI YYWRKKFHD ACLDMMPKSF KFLPQLPGHT KRRIRPSAVY VCGEHTTV tigtctagt catcttga agctttaaaa acaattgat aattggcct caagtagac ctatagca catcacatg gaattataa actcggact tggctctcag cgtatccac cgttaccag ggaacaatgc aatticaat tttagcatg gttctccag caataagaa tctatttcc agatggatt ttgaggtgga caagtggatc cactggcatc tgaatttg cctccaact tacttgagaa tttagtcca gaagttctg tatagttag aagagcacag ttactttt tcaaaaaac tggactttc capgatgtag gacccaaaag aaaaactta gttgattag ttatggctg cagtattgga aactattca tccagaact gaaggtatct gttcaataa aatcaataa tacaagaact caggaaagt atcatccat ctgtgcttc tgggactga acaaaaaca aagtttggga ggaatggaca cgtcaggatg ttgtgcacac agaagatcag atgcaatga gacatctgc ctgtgaacc acttcaca ctttggagt ctgatggacc ttocaaagaag tgcctcacag ttatgtgcaa gaaacacaa agtctctact ttaactgt atattgggt tggatatt ctattttt cagcagcaac tctctgaca tatgtgtt ttgagaatt ggcgaaggat tatccctca aaacttcat gaacctgagc acagccctgc tttctctga tctctctt cttctagtg gcttgatcac cttctcaat gttgattgag ttgtcatg tgttgagtc ctgttgcat tctctctt gccaacctt accttgatgg ggtagaagc aattcaatg tactatgct tagttaagt atttaacat tcatctgct gatacatct aaaaatgc atcatggct ggggttggc tgcctatg ttgtcagtg ttctagcag cagaacaac aatgaagct atggaaaaga aagtattggg aagaaaaag gtgatgaatt ctgttgatt caagatccag tcatattta tgtgacctgt | A | Homo sapiens |

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|-----|--------|--|-----------|--|---|-----------------|
| 571 | 189945 | G Protein- Coupled Receptor Dj287g14.2 | BAB55406 | <p>gctgggtatt ttggagtcatt gtttttttcg aacattggcca tttttattgtt ggttaattgggt cagatctgtgtt ggttgggaattgg caaggtgaagc aacgggaacc tgaaggaaga agtgttaagg aacttggcca gttgtgtgttag ctgtgacttt ctgttgggcca tgcattgggg ttttgcatc ttgtccgtgg gaccttanaa tatcccttc atgtacctct tttccattct caattcata caaggcttat ttatttcat cttccactgt gctatgaagg agaatgttca gaaacaagtgg cggcggtgcatc tctgtgtgtt tagattttgg ttgacagata actcagatttg ggttaagaca gctaccaata tcatcaagaa agtttctgtat aatctaggaa aatctttgtc ttcaagctcc attgtgtcca actcaacctt tcttaccoc aatcttaatt ccagctcttac caactatttc aagaaggaata gccaacacaga taatgtctoc tatgtgcat cccttaacaa aagtgtgata ctaagacagt gctttccatgg acaagtccct gtaaaaaag gccaatgtctg atggagatca aacatcaatc atccctgtcc atcaggttcat tgaatgggtc aaggtgtttatt gcaatgtctca ttcaagacaac ttctataaaa atatttcat gtcagacacc ttcaagccaca gcaacaagt ttaattgttt taaagaaaaa aatcaatct gcaagaaatgt gaaagtattgc aagcagtgtta aacttcaact agtgtgttaa atgtgtctatt acctaggtaa cttgcalatat alaaaggaatg tattttgtta agaaggtctt ttgtgaatc agaattttt tttaatat atttttcca tgggaagagt gctatcacia aacttcaagt actgtgagata acaigtacta gtagccacag aagctatgat ttgtaaaaa taaattgaa tcaagagtaat calaatgtcag ggtgagacatt caaattagag acaagggaaga agcaatgtctg aggaagacc ttatgtatg cttatttact ccacctaatc gttatcttg gatatacca ttitttgc cttttttc aacaataac tgtctgtct ttggagact ttgaacattt octaaagcac aataaaaa gctgtatttc cccattggaga gtttgtcc aagggaatag aagtgtgaca tatgggtgag tcaataaat caaataat ttatgaagagc tgggtctgca atagctagtc taaaaaactac ttgtgttca gttctgtgt ttatgtatat aagaagcttga ggtggtgtctgg caagatagat ggtgtattat ttatgtatca ggctgtctgca lacaaacct gctatattt atgcagctta octaaccttc agactattct ggttaattgt tctgtcttaa tgaatgtata gggaacca tttgaattgt tctatagta tggagtcat gcaattttt agaaatcagg ctacagtcgat gctgtgtctt ttacatttg ctctgggtta tctgggaagt atcaggttct gggaggaac agcaataagt gataagaata ggtgacatc tggcaagacc aatctgtta aaggcaaaagt ccagaacctg gaacttagag gcttttct ctgacgzaa aacaggtgagt ttgcaagtctg agataaggga gtagtttttag gctacacag aaccaaggg acctctacc ttgttctgag ctccaatcag gaagtattt gcttggctcc agcagatgat gtagataatga ggttaggggt ttitttacc ttgttccatt tgcacatcc tgcacaoca tccgtgggaga caagacatt accagcttg gctttacgg gggagggttg tattcagt</p> | P | Homo sapiens |
| 572 | 190026 | G Protein- Coupled Receptor JEG18 | NM_032553 | <p>MDFESGQVDP LASVILPPNL LENLSPEDSV LVRRRAQFTFF NKTGLFQDVG PQRKTLVSYV MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN KNKSFGGWNT SGCVAHRDSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR NTKVLTFISY IGCISAFS AATLLTYVAF EKLRRDYPSK ILMNLSTALL FLNLLFLLDG WITSFNV DGL CIAVAVLLHF FLATFTWMG LEAHMYIAL VKVFNTYIRR YILKFCIIGW GLPALVSVV LASRNNNEVY GKESYGKEKG DEFCWQDPV IFYVTTCAGYF GVMFFLNAM FIVVMVQICG RNGKRSNRTL REEVLNRLS VVSLLTFLG M TWGFAFFAWG PLNPFMYLF SFNSLQGLF IFIFHCAMKE NVQKQWRRHL CCGRFR LADN SDWSKTATNI IKKSSDNLGK SLSSSSIGSN STYLTSSKKS SSTTYFKRNS HTDNVSYEHS FNKSGSLRQC FHGQVLVKTG PC caccattagg caaagatagt tttctagag apaatcag ctgctaatha cactgtatcc agggccatag gtagacatac agatttttga tctttattt atgcagttag atacactgt atttctgtgc caggttctat aggggaataa ttgacctgt ggttattcta tggttatag aagaatacaa aacgagctgt gattattag ataaacttag ccaattgcta ctactacaa gtttttctt tgcactgag gatctttac tacttgaac atgactggcc atttgggctt ggttcttgcga tttttgtt ctacctgaag tatgtcaaca tttatgtcaag catctactt ttgtcttgcga tcaagtgtcg acgatttttg ttctcagt accottttg ctccactgac tgcacaagaa aatatgaact gtacatcagc attgtgtgtt ggttgaatc ctgacctggc ttgtgtactt ttccactgt cagaaccagt gattgatact ctggaatag gaaccaalgc ttgtgtgac ttctaccag gaaatgtcaac ctggccagc cgttgtttat gattgacatt ggtgagttga ttgggtttgt</p> | A | Homo sapiens |

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|-----|--------|---|-------------|---|---|-----------------|
| 573 | 190026 | G Protein- Coupled Receptor JEG18 | NP_115942.1 | <p>aactccgctt ctgattgtcc tatatgtac ctgggaagacg gttttatcac tgcagaataa alatcccatg gcccaagatc ttggagagaa acagaaagcc ttgaagatga tttaacctg tgcagaggta ttctaattt gcttgaccac ttatcattc agtttctct tagatttctt ggtagagacc aatgaataa aagactgctt agccagaagg gtaattctaa tatctatc ttgttgctta tgcctgcta gtcgaattc atgcttgac ccagctatc actacttcc cactaatgag ttccgaagac ggcttcaag acagatttg calgacagca tccaactcca tgcataatcc ttgttgatga accatacagc ttccaccatg acacttgaat tatgttaaaa caaaaaacca aactgaatg gaactgaat gcaatgacat cagaacatat ctgcaatacc caagccacag ggagaacti gcaaaaacac acagcttttc agttctctc tatctactg ctatggggaa ttactctt caaagcagga cctatttga gcathacgat ccacgatgat tgalgtgac atgtccatgt agtaatttt ctcaagt</p> | P | Homo sapiens |
| 574 | 190031 | G Protein- Coupled Receptor VLGR1 | AF055084 | <p>MPANYTCTRP DGDNTDFRYF IYAVTYTVIL VPGLIGNILA LWVFGYGMKE TKRAVIFMIN LAIDLQLVL SLPLRIFYVL NHDWFPGL CMFCFYLKYV NMYASIVELV CISVRRFWFL MYPRFHDCK QKYDLYISIA GWLIACLV LPPLRTSDD TSGNRKTCFV DLPTRNVNLA QSVYMMTIGE LIGFVTPLLI VLYCTWKTVL SLQDKYPMAQ DLGEKQKALK MILTCAGVFL ICFAPYHFSF PLDFLVKSNE KSKLARRV LIFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD SIQLHAKSFV SNHTASTMTP ELC</p> <p>attactgtat atgtatgat tgcgcgiga ttccaaaagg ttactttat gacagcatct ttctgatttc ctacagttt atatcttc cattgcccac gtttagaac ttatatag ttngcttc gacagcac cactcatgg gagaacaca gaaatctgt tcaaaacalc atttcaggaa aagaagaata tttagcgtt gagatcttt aaaaagtatg cagtacttta tagaactaag tttagggagc taaggagatc tttaattca tgcctatgcaa ttatgtatt ttgttgtt ttgtatttt ttattttg atttgatga ctttggaaga gggatgatt ttacttca agaaaatgga ctcaagatag atcaactcc ttgaatagga aacatcca ttctgcgat cataataalg aaaaalgata acgcagaagg calcatgaa ttgacccaa agtatatcgc ctccgaagtg gaggaagatg ttggctctgat calgatccca gttgtagggc tacatggaac ttatgctat gtgacagctg atttactc tcaagctcc tctccagtc ccggaggtgt ttattacat ttgcattgga gtacagtcac cttcagcat ggccaaaact taagtttat aaalatccc alcattgatg acaatgaaag tgaatttgag ggcccatg aaatttact cacttgagct acttgagggag cgtctcttgg gcgccacta gtgagcagaa tcaatagc taagagtgac tctcccttg gagtatag gtttctaat caaagcaaaa ttctatgc taatccaat tccacatga ttatcact gggtcttgag ccgacttgag gacttggg agatgattcag gtgacatgg agacatgagg accaactct caagaagcc tactgccaca gaataagagc attgagacc cagttagcgg gtgtgtctat ttggagaag gagaaaggagg agtgagaacc ataattctga caatctatcc tcatgaagaa attgaagtgt aagagatcat cattataaa ctcatctg tgaagaggaga agctaaata gactccagag ctaaaatgt tacatnaac atacaagat ttgttgacc aaatgagtt gtccaatttg ctctgaaac ttgtctaa aaagattat cagaagccctt ggctcttgaa ggcccccgc tcatcctt cttgttcaga agatgcaagg gcaccttgg agagattatg gtttactgg aattaagtat tgaattgac attactgaag actttcttc caccagtgga tttttacc ttgctgatgg agagaatgaa gctagcttg altgtcatt gctaccagat gaggtacccg agatagagga agatatttg atocagctg ttctgtaga gggagagagcc gaacttgatc tggagaagag tatcacatgg ttcttctt atgcataatga tgaaccat ggagatttg ccctgtatc ggatgcag tcaatactia ttgggcagaa ccttataga tcaatcaaa ttaacataac ccggcttgc tggaaattg gagatgtggc tgttggctt cgaatcat cggatcalaa agaacagccg attgtaccg aaaaatgca gaagcagctg gttgccaag atgttgccac atataaagt gacgttggtc caataaagaa tcaagcttc ctatcactgg gcttaatt cacttgcaa ctgtgtact tgaattgt cgggtgagc ttctatgaa tccaacat tcttcagga gcaaaatctg ctgtctcc agtctctgag aaagctgoca atttcaggt cggattgaa tccacttt ttcaactat gaacatcat gcttgccaca gccacgttat gatttctag agaaggacat atggagctct ctgggtggcc tggaccactg gatatgctc tgggttagaa attcctgaat tcatgtgt tggcaacatg acccaacac tggggagcct ttacttcc cagcgtgac aaggaagagg agttttctg tggacgttc ctaggccctg</p> | A | Homo sapiens |

[illegible]

ggaggactac acatggccta cagacactic tggatgttg ttctttgt caftttcac agtctgcagg gactttatgt tttaigtgt
 tafttcatt tacacaaca aatgtgtgc cctaigaagg ccagtacac tgggaatg aatgggcaic cttggaccag cacagccctt
 ttacggccg ggagtggaat gcctctgct ggaggggaaa tcagcaagc caccagaat ctatcgggtg ctatggaggga
 gggtccact gactgggaga gactcctt ccaacaggc agtcaggcca gccatgatt aaagccaagt ccacaaaatg
 gagccactt cccgtctct ggagatgatg ccaggggic actgatagcc gataggagt cccaggagt tgaattta
 aattgcat taaaacttg tctgtgctc agtctagc ataatgaatc tggcaaggc agccaggagg ggaggaccct
 gactgactcc cagatcgtgg agtcaggag galaccatc gccgacatc accatgta cctactaac catctgactg
 agcacactt calaattgta tcagctttg tgcataaact cctaagatc atccactgt ghaataggaa cctgtgaatt gtaactgatg
 attaataca acgtgatgt tgaattgga gtataaatta ctgattgial gtaaccatgaa aatcactgc tataagaaag gtagagtcag
 ttgtatcag ttaalaggat gtaataatc caagatatt agttgttt ttaatcatc tataaggcta acattgtta atgaagtaa
 taatcaataa agcaatagaa tct
 MQLIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI P Homo
 IEFDPKYTAF EVEDVGLIM IPVRLHGTY GYVTADEFISQ SSSASPGGVD sapiens
 YILHGTVTF QHQNLSFIN ISIDDNESE FEEPIELLT GATGGAVLGR HLVSRUIAK
 SDSFGVIRF LNQKISIAN PNSTMILSLV LERTGGLLGE IQVNWETVGP
 NSQEALLPON RDIADPVSGI FYFGECEGV RTILTIYPH EEEVEETFI KLHL VKGEA
 KLDSRAKDV LTIOEFGDPN GVVQFAPETL SKKTYSEPLA LEGPLLIFF
 VRRVKGTGE IMVYWELSE FDIATEDFLST SGFTIADGE SEASEDVHLL PDEVPEIEED
 YVIQVSVEG GAELDEKSI TWFSVYANDD PHGVFAL YSD RQSLIGQNLR IRSIQINIR
 LAGTFGDVAV GLRISSDHKE QPIVTENAEAR QL VVKDGATY KVDVVPKIQ
 VFSLGSNFT LQLVTVMVVG GRFYGMPTIL QEAKSAVLV SEKAANSQVQ
 FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG
 NMPTLGSLS FSHGEORQGV FLWTFPSGW PEAFVLHLSG VQSSAPGGAQ
 LRSGFVAEI EPMGVQFST SSRNIIVSED TQMRHLHVQR LFGFHSDLIK VSYQTTAGSA
 KPLEDFEPVQ NGELFFQKFQ TEVDTEITI NDQLSEIEEF FYNLTSVEI RGLQKFDVNW
 SPRLNDFS AVITILDND LAGMDISFPE ITTAVA VDTT LPVETEST YLSTSKTTTI
 LQPTNVVAIV TEATGVSAIP EKLVTLHGT AVSEKPDVAT VTANVSHGT
 FSLGPSIVI EHEMKNGTEN TAEVLIRRTG GFTGNVSITV KTFGERCAQM
 EPNALPFRGI YGISNLTWAV EEDDFEEQTL TLIFLDGERE RKVSVQILDD
 DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAAFAMVIT GSDLHNGIIG
 FSEESQSGLE LREGAVMRL HLIVTRQPNR AFEDVKVWR VTLNKTIVVVL
 QKDGVLNMEELQSVSGTTTC TMGQTKCFIS IELKPEKVPQ VEYVFFVELY
 EATAGAAINN SARFAQIKL ESDSQSLVY FSVGSLAVA HKKATLISLQ
 VARDSGTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE
 PGQRSTVLDV ILTPETGSLN SFPKRFQIVL FDPKGGARD KVYGTANITL
 VSDADSOAIW GLADQLHQPV NDDILNRVLH TISMKVATEN TDEQLSAMMH
 LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKKDTGRG SHFAEVTENF AFSLLTNVTC
 GSPGEKSKI LDSCPYSIL ALHWYPOQIN GHKFEKGED YTRIPERLLD
 VQDAEIMAGK STCKLVQFTE YSSQWFISS NNLPTLKNKV LSLSVKGQSS
 QLLTNDNEVL YRIYAAEPRI IPQTSI LCLLW NQAAASWLSQ SQFCKVIEET

575 190031 G Protein- AAD55386.1 P
 Coupled Receptor
 VLGR1

ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF
 CARYSMFAAK LLTHMMAASL GTQLFLASA YASQLAES CSAMAAVTHY
 LYLQFSWML IQSVNFYVYL VMNDEHTERR YLLFFLLSWG LPAFVVILLI
 VILKGIYHQS MSQYGLIHG DLCFIPNVYA ALFTAALVPL TCLVVVFVVF
 IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALLSVTW LWGGLHMYR
 HFWMMLVLFVI FNSLQGLYVF MVYFILHNQM CCPMKASYTV EMNGHPGPST
 AFFTPGSGMP PAGGEISKST QNLIGAMNEEV PPDWERASFQ QGSQASPDLK
 PSPQNGATFP SSGYGQGS LIADEESQEFD DLIFALKTGA GLSVSDNESG
 QGSQEGGILT DSQIVELRRI PIADTHL

Homo
sapiens

A

576 190168 G Protein-
Coupled Receptor
GPR58 NM_014626

atgatacat ttagggcagg atccaatc atcaaatat tiggcaatct tggcatgata attccaatt octacttcaa gcactttcac
 acaccaaca acttccatcat octctocatg gocatcactg atttccctt gggattcaac atcatgcat atagatgat cagatcggig
 gagaactgct ggtatttgg gcttacaatt tgcagaatt attagatt tgaactgatg cttagcalaa catcaattt tcacttgc
 tcaatggcca ttagatgat ttagctata tgtaccat tactttat caccaaaata actattccag tcaataaag atgtactt
 ctatgtgtt cggctccctgg agcatgtgccc ttggggcgg tctctcaga ggccatgca gatggaatag agggctatga
 calcttgtt gctgttcca gtccctgccc agtgaigtic aacaagatc ggggagacac ctgtttatg gcaggtttct tcactctgg
 gtctatgatg gtgggattt acggcaaat tttagcagta tccagaaac agtctatgc calcaalaa ttgcgagaa alcaaaataa
 tcaatggaag aaagacaaaa aagctgocaa aacttiagga atagtatag gagtgttct attatgttg ttcttgtt tcttcaaat
 ttaattggat cocttttga acttctatc tccgtgtt ttgttgtg cttgacatg gtttggctat tttaactcca catgtaatcc
 gthaatat ggtttctct atccctgtt tgcagagca ctgaagtaaa tttagtagg taaatttct agctcatgt tcalaatac
 tatttgtt algcaaaaag aaagtga g

Homo
sapiens

P

577 190168 G Protein-
Coupled Receptor
GPR58 NP_055441.1

MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLISM AITDFLLGFT IMPYSMIRSV
 ENCWFYGLTF CKIYYSFSLM LSITSIFLHC SVAIDRFYAI CYPALLYSTKI TIPYKRLLL
 LCWSVPGAFV FGAFVSEAYV DGIEGYDILV ACSSSCPVMF NKLWGTTLFM
 AGFFTPGSMV VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG
 IVIGVFLLCW PFCFFTTLLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFERRA
 LKYILLGKIF SSCFHNTILC MQKESE

Homo
sapiens

A

578 190170 G Protein-
Coupled Receptor
GPR57 NM_014627

atgatacaa ctatattcc cgaagaccta tccagtgtc caaaattgt aaataagatc ctgtctctcc accaaocgt ctttcatgt
 ccaggatgata atgtattcgg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccalatc gcaattcaaa
 cagcttcaact ctccacaaa ctctctgact ctctccatgg caaccacgga ctcttctg ggttttgca ttatgocata cagcataatg
 cgaatcagtg agagtgtctg gtacttggg gtagtcttt gtaattoca caaagcttt gacatgagc tgaactgac ctcaatttc
 caactctgtt ccatgctat tgaacgatt tatgocgtt gtaacoccti acattacaa accaaaatga cgaactccac cataaagcaa
 ctgctggcat ttgtggc agtcttctt ctctttt ttgtttatg tctatcag gcgcagatt cggatgca gagctataag
 atactgttg ctgtctcaa ttctgtgccc cttaattc acaattctg ggggacata ttgttacta catgtttct taccctggc
 tccatcagtg ttgttatta tggcaaatc ttatcgtt ocaaacagca tgcctgagtc atcagccatg tgcctgaanaa cacaaggggg
 gcagtgaaaa aacacctatc caagaaaaag gacaggaag cagcgaagac actgggata gtaatggggg ttgtctggc
 ttgtgggtg cctgtttc ttgtctt gtagaccca taactagact actocactoc cataciaata ttgatcttt tagtgggt
 ccggtaactc aaacttact gcaacocctt taitcatgct tttnaatc catgtttca gaaagcattc aagtaataag tgcagagaa
 aatatttagc tccactcag aaactgcaa ttgtttct gaagcaatt aa

Homo
sapiens

P

579 190170 G Protein-
Coupled Receptor
NM_055442.1

MDLTYIPEDL SSCPKFVNK LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL
 VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG

GPR57

580

190188

**G Protein-
Coupled Receptor
LGR6**

AB049405

A Homo sapiens

DGFCCKHTSF DMMRLRLTSIF HLCSTADRF YAVCVPLHYT TKMNSTIKQ
 LLAFCSWSVA LFSFGLV LSE ADVSGMQSYK ILVACNFCA LTFNKFWGTI
 LFTTCTFFTP SIMVGYIYGKI FIVSKQHARV ISHVPENTKG AVKHLKSKK
 DRKAACLTGI VMGVFLACWL PCFLAVLDP YLDYSTIPILI LDLLVWLRYF
 NSTCNPLIHG FFNPWFQKAF KYIVSYGKIFS SHSETANLFP EAH
 glocacifigca ggaagagagac atcatctgctf ctgcccagctf cctagagctc gggctgctccg ccgcttccggg ggaactgagac
 cccctgagcg cttaactgga cctcagctgct aacactctca cagagacttca gctctggctcct ttccaccac tgcgctctct
 gggagagagctg cgtctctctf ggaacacat ctacacatc ccagggacag caictctgag tctctacag ctgaaatoc
 tgaatgctgca gaaacatcag ctggggaagaa tcccgccaga ggcctgctgg gagctgcccga gctctcagctf gctcgccctca
 gtaigtccac tcatctccct ggctcccgag agggagctgg agggggctgct cctccctcg cactctggc tggagacaa
 gtaactcccg gaaactccctf taaaggctccct caaacccct ccggctgctf agggccatgac cctggccctc aacccatca
 gtaactcccg gaaactccctf tgaagaaic tcaaccctc gctggctgctf caatggatca acaacatc ccaagctcag
 gggaacccctc gctctgaggg gctctgacaat ctgggaagac tgaagctgaa ttaatacaag ctgcaagagctf tccctggcgc
 caatccgggac ctggggcagac tgaagagaaat gggtgttccat aatacaaca taaaggccat ccaagagaa gctcttctg
 gggaacccctf gctacagagc atacacttt agtaaac aatcagttt gggtggagat cggcatcca gtaactgct
 aactctcca cactatctf gaaatggctcc atggacatcc agggcttcc agatctcaaa ggacaccca gctctggagat
 ctgacacatc aacccggcag gcatccggctf gctcccatcg gggaatggctcc aagagctggcc cagggctccga gctctggac
 tctctcaaa tcaatggag gaaatggccca gctctcagag gtaagtaaa tggagggaaa tgggctccca acaaacggc
 atctgggaaa tggagagctga cactctgac cagctggagct cctggcagag cctggagatct agctgggaag ccaatggctc
 catccatccct ggagctctf ccacatgca ctccctggct agagctggaaat tgaacagaaa cagagctgac acatggcc
 tggctggagat tggggggctg agtaatgta agctcaagg gaaactgct cctccacag cctctccaa ggacagttt
 ccaaaactga gaaactgga gggtccatf gctccacatf gctctccca tgggaatgctf gccaagctct tcaaggctc
 tgggaagctg gaggctggag acatctcat tgaatgag agtaactcct ggaagagctg gactcaagc cacaacccag tgaactg
 agccatccat cagggccctf gaaacccctf aggttaactct tggaaagctf gggggctccg ctggccatctf gggccatctf
 gttgctctcc gttctgca agtgaactgg gctggctgac gttgtctggc gctggccctg cccctggcc cgggtcagat
 tttgtgtag gtaatgca ggctcccaaca ccttgaagct catctctf ggccatctg gctcaatg ctaactgca tggctgctf
 tctctgagta cggagcccg tgggaagaggg gctcaagctc cggggccatf ggctctccag cagtaactg gttggagagca
 tccgtgctg tggctcatctf ggccctgcaagctf cagttgcaagctf tctccctf ctggctccgg gctcaatgggca agtccctc
 cctggggcag ggctgagagctf gggtctccag ctggctgca ctgggaagctf cctggccctf cagtaactg gttggagagca
 gaaactccca ctctggct ctaagctggc accatggggc cagcaagacat cctgggctf cactggctg cccctggcc
 ctgggtgtag gaaactctf ctggttctf gttcggtggcc gggtctcat caaactgac tgaatgtag tgggtggggct
 ctggggcc gttggagagctf ggcccaatf gaaaggcagctf ggctggctca tcttggca cggggctctc tactggccg
 tggccctct cagttggc tcatgctgg gctctcc tggaccc gaaagccctca agttctctf cttgggtggctf
 ctggccctf ctggctct caaacactf ctgactgct tctcaacc cactccgg gtaagctc ggctggctc
 cccctggca gggtgactcag ggccctcag ctatgctggc gctggggagag tggagagag ctctctg tctaccag
 gctctggtag ctctctf gttgactca tctggagag tctggagctf gggtggccct cctgggtgga gaaactggc
 tccctctcag tgaactctf ctctgctcag cagccagggcc cccacagctf ctggagggctcag agccatggag agccagggg
 gaaacactf gggaacccc aacccatctf gtaatggaag ctggctgctf ggggagaggg atctacagca gcaaggtgtag
 ctctgtag gggtggcgctf ttacagccctf ctgggtggc ctggctca cagttgtaaa taaactcc cactctc tccctc

[illegible]

| | | | | | | |
|-----|--------|--|-------------|--|--|--------------|
| 583 | 190414 | G Protein-coupled Receptor GPR101 | CAC33098.1 | | <p>MTSTCTNSTR ESNSSHTCMP LSKMPISLAH GIIRSTVLVI FLAASFVGNV VLALVLQRKP P</p> <p>QLLQVTNRHFNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL</p> <p>THLFAFASVN TIVLVSVDY LSIHPLSY SKMTQRRGYL LLYGTWIVAI</p> <p>LQSTPPLYGW QQAADFERNALCSMWGASPYTILSVVSF IVIPLIVMLA</p> <p>CYSVVFCAAR RQHALLYNVK RHLSEVRVKD CVENEDEEGA EKKEEFQDES</p> <p>EFRRQHEGEV KAKEGRMEAK DGLSKAKEGS TGTSESSVEA RGSEEVRESS</p> <p>TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMFEFGEDDI</p> <p>NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IFIIFSYVL SLGPYCFLAV</p> <p>LAVWVDVETQ VPQWVITIII WLFLLQCCIH PYVYGYMHKT IKKEIQDMLK</p> <p>KFFCKEKP PK EDSDPDLPGT EGGTEGKIVP SYDSATFP</p> <p>taactgtcca ccagaaagga ctgctcttg ggtgagtga actcttcca ttatgataag aattgaaggc tgaagaaact agcctctatc A</p> <p>atgtgggaaca gctctgacgc caactcttc tgcctaccatg agtctgtgct gggctatcgt tatgttgacg tiagtgggg</p> <p>gggtgggtgg gctgtagacg gcaactgggg caatgctc accctactgg ccttgccat ccagcccaag ctccgtacc</p> <p>gattcaacct gctcatagcc aacctcacac tggctgact cctctactgc acgtctctc agccctctc tggtagacac taactccac</p> <p>tgcactggcg caocggigcc acctctgca gggatttgg gctctctt ttggctcca attctgtc catctggacc ctctgacctca</p> <p>tgcactggcg acgtactctc ctcatggcc acctaaagct ttctcccaa gtttcagtg ccaaggggat agtctgggca</p> <p>ctggtagaca cctgggtgt gggcgggcc agcttgctc cctctggcc tatttatac ctggtacttg tagtctgac ctgcagctt</p> <p>gaccgcatcc gagcgggcc ttacacacc atctctagg gcatctact ttgtgttggg ctgacgagtg ttggcatct ctattgctc</p> <p>atccaccgc aggtcaaacg agcagcacag gcaactggacc aatacaagt gcgacaggca agcatccat ccaaccatgt</p> <p>ggccaggact gtagggcca tgcctgtgt ttccaggag ctggagaca ggttagcat ccaggagacc agtggaggga</p> <p>tttcatctga gcaactgact gctgcacca ccagaccct ggaaaggggac tcaagaaag tggtagaaca gatcaacagc</p> <p>aagaagacta agcagatggc agagaaagc cctccagaa cactgcca agccagcca attaaaggag ccagaagagc</p> <p>tccggattct tcatggaaat ttgggaagt gactgaatg ttgttgctg tggctctg cttggccg agctacatc cttctgtct</p> <p>gctcaacatt ctggtagcca gactgaaggc tcccgggg gttccatgct ttgtgcca cctcaactg ctcaatggt</p> <p>gcatcaacc ttgtctctat gcaactgac accgccaatt ccgccaagca tatgtctca tttaaaag agggcccgag</p> <p>agtttccata ggtccattta gaactgtgac cctagtcacc agaattcagg actgtctct ccaggacca agtggccagg</p> <p>taataggaga atagggaata taacacatgt gggcatctt acaacaatct ctccagacc tcccaatca agtctctca tcatgtalc</p> <p>aattgtcag ccttagactg cccaaggagt attataat attataat gaattctgt ctttaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaaa aaaaa</p> | Homo sapiens |
| 584 | 190418 | Inflammation-Related G Protein-Coupled Receptor EX33 | NM_020370 | | <p>MWNSSDANFS CYHESVLGYR YVAVSWGVRV AVTGTVGNVL TLLALAIQPK P</p> <p>LRTFRNLLIA NLTLADLLYC TLLQFVSVDY YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAKGIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVVCTCSF DRIRGRPYT ILMGYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLRQA SIHNSHVART DEAMPGRFOE LDSRLASGGP SEGISSEPV</p> <p>AATTQTLEGD SSEVGDQNS KRAKQMAEKS PPEASAKAQ IKGARRAPDS</p> <p>SSEFGKVTRM CFAVFLCFAL SYIPFLLLNI LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLV AAMNRQFRQA YGSILKRGP SFHRLH</p> <p>ctttgttcca gagctaaac agttttct ctctccacag caaatatct gacagtgc atctctcc agctgtggc aagaagacag A</p> <p>aagctctct acaactatct ctggacac gctgtggccg acatcttgg cctctttt atagtgttg ttgacttct gttggagat</p> <p>ttcatctga acatgcagt gctcaggic ccgacacaga tcatagaat gctggaaic tcatcatcc acacttcat atggattact</p> | Homo sapiens |
| 585 | 190418 | Inflammation-Related G Protein-Coupled Receptor EX33 | NP_065103.1 | | <p>ctttgttcca gagctaaac agttttct ctctccacag caaatatct gacagtgc atctctcc agctgtggc aagaagacag A</p> <p>aagctctct acaactatct ctggacac gctgtggccg acatcttgg cctctttt atagtgttg ttgacttct gttggagat</p> <p>ttcatctga acatgcagt gctcaggic ccgacacaga tcatagaat gctggaaic tcatcatcc acacttcat atggattact</p> | Homo sapiens |
| 586 | 190419 | G Protein-Coupled Receptor Ls190419 | AJ303165 | | | Homo sapiens |

| | | | | | |
|-----|--------|---|------------|---|-----------------|
| 587 | 190419 | G Protein- Coupled Receptor Ls190419 | CAC33085.1 | LCFRKPVFL LSTANILTVI ILSQLVARRQ KSSYNYLLAL AAADIL VLFF IVFVDFLLED P FILNMQMPQV PDKIEVLEF SSIHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTRKVI VSVYITCFLT SIPYYWWPNI WTEDYISTSV HHVLIWHCF TVYLVPCSIF FILNSIIVYK LRRKSNFRLR GYSTGKTTAI LFTTTSIFAT L WAPRIMIL YHLYGAPIQN RWL VHIMSDI ANMLALLNTA INFFLYCFIS KRFR | Homo sapiens |
| 588 | 190427 | Cysteiny Leukotriene CYSLT2 Receptor | NM_020377 | aagttctta agttgaagc gtcagctca accaacaaca ttaattggcta tttacatc aaaaacagg aaatttaaat ttattatgaa atgtaagca gcaatagta aagacttaac caggtttta aaactcaact ttcaagaaa agatagtatt gctccctggt tcaataaac ctagaagat gtaactgta agcaagaagg aaaaaggaggaa attcaaaaag taacttttg tgcctgtttc tttaaac accatggaga gaaaatttat gtcctgcgaa ccatcatc cccgtatcaga aalggaacca aalggaacca tcaagcaataa caacagcagg aacctgcaca ttgaaaacti caagagagaaa tttttccaa ttgtatait gtaataatt tcttggggag tcttgggaaa tgggtgtgoc atatagttt tctgcagoc ttataagag tccacatctg tgaacgttt caagctaaat ctggccaatt cagatctcct gttcataagc acgttccct tcaaggctga ctattact agaggctoca attgatal ttggagacct ggcctgcagga ttatgcta ttctgtat gtcaacatgt acagcagat ttatttctg accgtgcga gttgtgag ttccctgcga atggttcaac cctttggct tctgcagc accagcatca ggaagctctg gtaactctgt ggaactat ggaactatc catggcttcc tcaataatgc tcttggagag tggctctgag cagaacggca gttgcacatc atgcttaagag ctgaactct ataaattgc taagctgag accatgaact atattgocit gggtgtgggc tgcctgtgc cattttca acacagcatc tttatctgc tgaatctgc gttctgtta aaggtggagg tccagaaac ggggctgagg gttctaca ggaagggcact gaacacatc atcatcact tgaatcct ctctgtgt ttccgtccct atcacact gaggaacct cactgacga caggaaga ggggttatgc aaagacagac tgcataaagc ttgggtatc acactggoc tggcagcagc caatggctgc ttcaatctc tgcctatta cttgtctgg ggaattta aggacagact aagctctgca ctcagaagaag gccatocaca gaaaggcaag acaaggtgtg ttccctgt tgggtgtgagg ttgagaagg aaacaagagt ataagggagt cttagagag acctgtct gtaactgt gtccatctc attcatc atgctocaaa tgaattgta ttatcacc tccacaaca ttgtgtatct taatattag ttgaactta ctttgtta taagacctac ttcaaaaatt ttattcagt taattcagt tgttgaagt taatggagg tacaaggagg aaaaaccta cttaggtct gttggctgga atatcagact gggaaaaa gcaaaagcaca ttggactta ctttctca gaaattgac cagatctg gccaacagc ctcttaaat tctcaaaag agccaacat tcccagct ctccagctcc cctgtctct tcaatccct ggaatagc aactaacgac gctactggga gcccagagc agaaaaggag cacatocaa gattcaggga aagactaact gtaaaaggga aggtctgtct atacaaga agcatcagt cccaagtaag gacagtgga gaaaaggagg agaaaggtat gttgcaaaaga gaaatggca taagtggagg aaggtgaaga ttcaattgc atggaggag aggttcaac acactgaag ccaacctat tctatctt ctctgtgoc aggtgtattag gaaaggagag aaaaatagg ggaagagctg gggcatgccc ctagggaatg aagaattgt gtaataag gaaaggggat catcaaggac atgtaacta aatttttt ggaatgagg ttatgtgacc ttgtgtcag tctctccc attaatcat tggatggga gccaaaaa aaaggaggct ctctgaagat taggtgtgag cactcaagg gaaatggag tagagggca atagcaaaaag ttgtgtact cctgaatc tattaacatt tccgcagaaag atgagtaggg agatgtgccc ttcccttg agatagtgta gaaaaacact agatagtg agaggttctc ttctgtcat tgaacaagg ctgaagatc taocacatc tatcaccag accatgtac tgaacaat tgaatgagt | Homo sapiens |

Homo
sapiens

P

cttccctgcag ggagattat gccaggcact ttacatttgt tgatccatt tgacattcac accaaagctc tgagttccat ttacagctg
aagaataatga agcttagaga aatitagaag ctgtttiaag ttacacaga tagtaagaag ttataaatc tctgtgcaga agtgttgctg
gggtgtctc ccacacacta cccctgtanaa cttocaggaa gatgtgtga aagcttgaat aaaaagctc cttctacc aattctcc
ccctctcac tctcacaga aaacaaaag ttctcttca ggtgtgtga ctataglac agtaaaaggt ggaagtgata tggcattctg
aaagttagga gggactaagt cagctgcat actaaac

NP_065110.1

Cysteinyl
Leukotriene
CYSLT2
Receptor

190427

589

Homo
sapiens

A

MERKFMSLQP SISVSEMEPN GIFSNNSNRN CTIENFKREF FPIVYLIF WGVLGNGLSI
YVFLQPYKKS TSVNVFMLNL AISDLLFIST LPFRADYYLR GSNWIFGDLA
CRIMSYSLYV NMYSSYFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IJWILMASS
IMLLDSGSEQ NGSVTSCLLE NLYKIAKLT MNYIALVVG LLPFFTLIS YLLIRVLLK
VEVPESGLRV SHRKALTTII ILLIFFLCF LPYHTLRVH LTTWKVGLCK DRLHKALVT
LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVSVWL RKEITRV
ccgtgtgcc agtgtctga caaatctaa cttctcaagg actccaaaa ccagagacac caggagccgt aatggggaac
gattctga gctacgaga tggggattac agcgacctt cggacccgcc tgtggactgc ctggatggcg cctgctggc
catcgaccgg ctgcgcgtgg cccgcctccc actgtatgcc gccatcttc tgggtgggggt gccgggcaat gccatgggtg
ccgtgggtgg tgggaaaggtg gccgcgcggga ggggtgggtgc caactgtgtg cttaccctgg ccgtggcgga ttgtgtgc
tgtttgtc tggcatctt ggcagtgccc atgtccgtg gaggccacgt gccgtatgt gcatgtgggt gtcggggcgt
ggctccatc atctgtctga ccagtatgc caggtctgt cttgtggcag ctctcagtg cpaactctgc ttctgtgtc
tcggggtgtc ctgtgtgtc aggtgtcgc ggggtgtgc ggtgtcaggt gccgtgggg cagcctggac actggcctg
ctgtcatcgg tgcctccgc catctaccg cggctgcac agggagcact cccagccgg ctgcaggtg tgggtggacta
cggcggctcc tccagcacgg agaatcgt gactgcac cgtgtttt ttgtctctt gggggccctg gttggccgtg
ccagctgtca cagtgtcct ctgtctggg cagcccgatc ctgcggccg ctgggcacag ccatgtgtgt ggggtttt
gtctgtgg caacctaca cctgtgggg ctgtgtctca ctgtggcgcc cccgaactcc gcactccgg ccaggggcct
gggggtgaa cccctcatg tgggctgtc cctgcgtcac agctgcctca atccatgt cttctgtat ttggggggg
ctcaactcc ccgtgtcgt ccagctgct gtcactgggc ctgtggggg tccagggcc agggacgaag tgggacagc
aagaatacca ccagccatga cctgtgtc gtagtgaggg tgaagctgg agagacatg tgggtgtga tctctatc
tcatttca agactggct caggcatagc tggatccagg agtcaatga tgtctcatt ttattctc ctatctca cagatatcca
tcattcact gctatgtga aggcctttt aggcactaga gatagcag tgacaaaac agacaaaat cctgccc
MGNDVSVEY GDYSDLSRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV
PGNAMVAWA GKVARRRVGA TWLLHLAVAD LLCLSLPIL AVPIARGGHW
PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLALGPA WWSTVQRACG
VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSSTENAV
TAIRFLFGL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH
LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPML FLYFGRQLR
RSLPAACHWA LRESQGQDES VDSKSTSHD LVSEMEV

NM_018485

G Protein-
Coupled Receptor
C5L2

190437

590

Homo
sapiens

P

atgtgtggcc ctgtgtct gggcctcag cttgtggctc tcttgacacc tgggacgggg gcccatgtt gccgtgtaca
gcaactagg atgaaggggg actacgtct gggggggctg tccccctgg gggagggccga ggaagcttgc cttccagccc
ggacacggcc cagcagccct gttgtcacca ggtacaggg tgggacggcc tgggtgggg tcaagggtgac caggtgtggg
gtgtcttga gctgtgggg aggtggccat ctgtgtgtt gttgtggcc aggttctct caaacgctt gctctgggca
ctggccatga aaatggcgt ggaaggagac aacaacatg cggatctgt gccggggctg gcccgtgggt acgacctt
tgatactgct tggagagctg tgggtggccat gaagccacgc ctatgttcc tggccaaagg agggcagccgc gacatcgccg

NP_060955.1

G Protein-
Coupled Receptor
C5L2

190437

591

Homo
sapiens

A

atgtgtggcc ctgtgtct gggcctcag cttgtggctc tcttgacacc tgggacgggg gcccatgtt gccgtgtaca
gcaactagg atgaaggggg actacgtct gggggggctg tccccctgg gggagggccga ggaagcttgc cttccagccc
ggacacggcc cagcagccct gttgtcacca ggtacaggg tgggacggcc tgggtgggg tcaagggtgac caggtgtggg
gtgtcttga gctgtgggg aggtggccat ctgtgtgtt gttgtggcc aggttctct caaacgctt gctctgggca
ctggccatga aaatggcgt ggaaggagac aacaacatg cggatctgt gccggggctg gcccgtgggt acgacctt
tgatactgct tggagagctg tgggtggccat gaagccacgc ctatgttcc tggccaaagg agggcagccgc gacatcgccg

LG94114

G Protein-
Coupled Receptor
Ls190438

190438

592

[illegible]

593

190438 G Protein- ENSP00000080
Coupled Receptor 322
Ls190438

P
Homo
sapiens

AQDPVKPWQL LENMYNLTFH VGGLPLRFDS SGNVDMYDL KLWVWQGSVP
RLHDVGRFNG SLRTERLKR WHITSDNQVRP QACAQKPVSR CSRQCQEGQV
RRVKGFHSCC YDCVDCEAGS YRQNDDIAC IFCCGQDEWSP ERSTRCFRRR
SRFLAWGEPA VLLLLLSL ALGLVLAALG LFVHRDPSL VQASGGPLAC
FGLVCLGLVC LSVLLFPQP SPARCLAQOP LSHLPLTGCL STLFLQAAEI
FVESELPLSW ADRLSGCLRG PVAWL VVLLA MLVEVALCTW YLVAFPPEVV
TDWHMLPTEA LVHCRTRSWV SFGLAHATNA TLAFCLFLGT FLVRSQPGRY
NRARGLTFAM LAYFITWVSF VPLLANVQVV LRPAVQMGAAL LLCVLGILAA
FHLPRCYLLM RQPLNITPEF F

Homo sapiens

A

594 190484 G Protein-Coupled Receptor Ls190484 LG95579

594

ttgtacgtgc tggttctct gtctgcccgt ggcctctgtt gggcctgtgt gttcttgag cctcacgttgg ggcctgtgoc
cggggccgcc tctggcgggg tctgtgtggg gctttctct tcaagaggcag gagggtgtggc tgggtctcta agggcccttg
gggtaggaag cggaggaagg gttgggggaag cttacacaa gggacgtgggc acagaaactgg cagcagggtgc aggggtcttg
acgttagtgt ctgctgttgg cttggccaca gaattgact gttggctgggc catgaagttc agtctgttggct gggctgttgg
atccgactgt ggcctggggccg taggggtcag ctgtgtgtga gctgtgttga cggatcttgg cttggagttgtt ggggttacct
gaggctgggc cacaggatcc atctgttact gggcctcttc catcgtctct ggcagagtttg gaacctcaga atctagtctgg
gtctgttggct cagtgtggcgt gaagctgtccc ggcggctctt cgcagagagagc tgcctgcgaag gacgtgagagca cgtgagcgcag
cagggtctgg aggtctggcac tggccatgag gcagagagggaag gggctgtgagc agtctgttga taggtatcaggt
agacaggggc ctccagaagc aggttagccag agtagactgc ccacagggaag ggcaggtgttga gtcagctgtggc cagctgttga
ggcagcttca ggaaccacata ggcctgacaga atgtctcttg ccacaggggc gaagccccgg gacgtctggc gctgtgttgg
gctgtgtcag gttgtgacag ctgtgtgtcgt ggtgtgacag tggcagagaga gtcagcagagag gaaaggtcag gaggccccca
gggaotccag catctcagc gacagctctt cgtctgttcca gaagtccagg cagatgtacca ggtctgtacca ccagagggca
gctcggggga agacagacca gggcagcgtc agagagttgtt cagagacca gacacgggc cagacccaga ggggtcagggc
gactgtggcg tgcacagggt accagtgttg gcacagcgcc agcacggcagc ggtctgaggtt gagggtggggc agcacggaaaga
ggccggaga gtaggacacg cccatagga agtagtagaa ggcggcagga gctgttccca gtcggccagt tccccatgc
cggatctta ggaatctgaa ggcgtgtgtt gccaggtaaca agaatctaga gagggtcaggg ctgtagcagga gtcagctgtcag
acgcgtgcca gctccatgcc gggcctggga gcccggcagc caggtccatca accattggc tggcagacca aggagcagca
ggggccacag gaagaccgtg tccagccac cttgggggga ggaagtctca tcaatagct ctgtgtgggg cctgttggcca
gtggaccca ggtcagctc catgttagtg tccatttggg gtccocagag tctgttga cagggagttg gttgtgttgg
aatcaatgat ggtgtgaag accgagtag ggaagagcgg tctgtgtcat ctccaggca gtcacatcc ctctgtggc
cattgtatc acctttgag taattatct atgccaagg ctggaagtg atgaacctat ggaagtctca tacaatcac ttacag
MEADLGATGH RPRTLEDDED SYPQGGWDIV FLVALLLLGL PANGLMAWLA P
GSQARHGAGT RLALLLSLA LSDFLAAA AFQLEIRHG GHWPGLTAAC
RFYFLWGVY YSSGLFLAA LSLDRCLLAL CPHWYPGHRP VRLPLWVCAG
VWVLATLFSV PWLVFEAAV WWYDLVCLD FWDSELSLR MLEVVGFLP
FLLLVCHVL TQATACRTCH RQQPAACRG FARVARTILS AYVVLRLPYQ
LAQLLYLAF LWDVYGYLLW EALVYSYLI LLNSCLSPFL CLMASADLRT
LLRSVLSSFA AALCEERPGS FTPTPQTQL DSEGTLPPEP MAEAQSQMDP
VAQPQVNPTL QPRSDPTAQ QLNTAQPS DFTAQQLNL MAQPQSDSVA
QPQADTNVQT PAPAASSVPS PCDEASPTFS SHPTGALED PATPPASEGE SPSSTPPEAA
PGAGP

Homo sapiens

P

595 190484 G Protein-Coupled Receptor Ls190484 ENSMPRT2619 43

595

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|-----|--------|---|-------------|--|---|-----------------|
| 596 | 190595 | G Protein- Coupled Receptor SH120 | NM_016334 | | A | Homo sapiens |
| | | | | agaccatggg aaaaaggcaga ccgctgtgagg gggcccttggg cccagcggc cgtggccctc ggggagtgagg aagtgaggc agggcccttc ctacacctic gcataggtt tccgtatgca ctcagcatic agtattact cccaatact atttttga ttgttgagg ttcttcat gggccaatg ttaagact atgagatagc tcaatggt gtacagggtga tcttccgt gacgtttgca tttcttgca ccattgttga gctcatcatic ttgaatatc taggagatgt gaalagcagc tccgttatt ttacatggaa aatgaaccgtg tgcgtaatc tgcgtatcct ggtttcatg gtcgtttt acatiggccta tttaattg agcaataic gactactgca taaacaacga cgtctttt cctgtcct atggctgacc ttatgtatt tcttctgga actaggagat ccttttgc cttcttctg gatttggtg tgcacactg ccatacact tagaacaagt catcacgggg gttgtgtgga ttgagtagac tctatggt cttcttctg gatttggtg tgcacactg ccatacact acatgctta cttccacagg aatgtgactg acacagatat tctagccctg gaaaggcgag tgcgtgcaaac catggtatg atcataagca aaaaagaaaag gtagggcaatg gcaaggagaa caatgttcca gaagggggaa gtagcaataa aaccatcagg ttcttgaggga atgataaaa ggtttatcac ttacatcag ggaagtgaat acttactct taitcaacag gaagtggatg ctttggaaga atgaacagg cagcttttc tggaaacagc tgaatlat gtaocaaagg agagaataga atactocaaa accitcaagg ggaatatatt taatttctt ggttacttt tctattta cgtgttgg aaaaattica tggtaacat caatatggt ttgatcgag ttgggaaac ggaatcctgtc acaaggaggca tgaatcac tgtgaatat cttggaaatc aattgtagt gaaagtgttgg toccaacaca ttcttcat tctgttggga ataalcag tcaatccat caggagatg cttgacatc ttacaaagt cttttatgoc atctttagca gtaagcttc caatgcat gctttagc tagcacagat aatggcgatg tacttctt cctctgtgct gctgaccca atgagatagc ctttagaala ccgcacata atcacitgaag tcttgtagga acttgacatg aacttata accgttgggt tgaatgcat tcttggtca ggcgtcttc tagcalact tctctatt tggctcaaa acaggcaca gaaagcaaa tggcacctg aacttaagcc tactacagac tgttagaggc cagtgttgc aaaaattaga taaagaggg ggggaaaaatg gaaacaggggc ctgacattt ataaacaaac aaaaatgcat gtagcatl ttacattca tagcalact cttcccttc aggttgaatc atgaacatga gtagcatcag ccagaaatg agaggagga ctaacaaag acaatcaca aalacactg aacttggg caagacatgt ctatgttagc tgaagccaaac cggagagag ccaagaaact aaaggtagaa aalacactg aacttggg aacttggg aacttggg aacttggg aacttggg t actgagatg tccgtttta ggtttacatg gaaagagga tagtttggc ttgaatgga ctaataaaa tcaagacatg t MSFLIDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVIFSVTFAF SCTMFELIF EILGLVNSS RYFHWKMNLC VILLILVEMV PFYIGYFIVS NIRLLHKQRL LFSCLLWLTF MYFFWKLGDV FPILSPKHGI LSIEQLISRV GVIGVTLMAL LSGFGAVNCP YTYMSYFLRN VTDTDILALE RRLQTMDMI ISKKKRMAMA RRTMFQKGEV HNKPSGFWM IKSVTTSAG SENLTIQOE VDLEELSRQ LFLFETADLYA TKERIEYSKT FKGYFNFLG YFFSYCVWK IFMATINIVF DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHIFILVGI IIVTSIRGLL ITLTKFFYAI SSSKSSNVIV LLLAQIMGMV FVSSVLLIRM SMPLEYRTII TEVLGELQFN FYHRWFDVIF LVSAISSILF LYLAKHQAPE KQMAP aggtgcagg cggcgctggc tggagcgggg ggcgcggccg cgcgcagag agtgcacag aggcgaaggc cagctggagc gtcggcctg cggggccgcg ggggtcgaat gttcgtggca tcaagagaga agatagagc tcaacaggc ctacacttc tctgtctt cgtatcac tgggtggct ctgaanaagc cagacatcc cgaagctgtg ggttggact cctccatg taccgttccc tgtgcagct ggaagccalc tggggcatg tgggtggagc ggttggcggc gggggccccc tgaacact gcttctgat ctactctc tgggtggc gcttctc aaggaagagg agagaagag cctgtgggc cttacttc tgttctct ggggaacctg ggcctcttg ggtcagct tgcctcatic atcaaggagg acgagacat cttctctg cgcgccttc tctggggcgt cctcttgg cttgtctt cctgtctt gtagcagga tggcgcgctg gtagggctgg ggggcatggc acggggcccg cgggctggca gctggctggc cttggctggc gctggctggc gctggctggc tggagtgct ggtgtcac gttgtgtg acacaaggcc agctgtggcc tggagtgcca tggagtgct gtagggcc | | |
| 597 | 190595 | G Protein- Coupled Receptor SH120 | NP_057418.1 | | P | Homo sapiens |
| 598 | 190599 | G Protein- Coupled Receptor GPC5B | NM_016235 | | A | Homo sapiens |

| | | | | | | |
|-----|--------|---|-------------|---|---|-----------------|
| 599 | 190599 | G Protein- Coupled Receptor GPCR5B | NP_057319.1 | <p>atlaacgaca tgggtactgct tgggtgaccc cggggggctgg ccctctcac tctgtgccc aagtticaaga ggtgggaagct gaaaggggcc ttctctccta tcaacagctt cctctctgtg ctatctgtgg tggccttgat gacatgtac ctctggca atgtcaagct ggacgggggg gatgctggga acgacccac ctggggccac acgtctggcg ccagcggctg ggtcttcgtc atctccacg ccatccctga gattccactg accctctg ccggccctga ggaagaacag ccaactact tggacacgtc ccagccacagg atgggggga gggccctcga ggaagagctg cagctgccc gggccctat ggaagaacag gctctctca tggatgaaca caatgcagct ctccgaacag caggtatcc caacggcagc ttgggaanaa gacccagctg cagctgtggg aanaagacca ggcctcgtt tagaagcaac ggtatcagc caactgaat gggccgtcgtg ctacagggg ggaacalccc aactgctccg ccaagtcca cagggaagaca ccttgggga aagactttaa gttccagaga atcagaatt ctctaccga ttgctccc tggctgtgic ttcttgagg gagaatagg taacaggtg cgaaccagg ccgtctcacg ccaggaat tgggaatct agccaagggg attctgtga aatgtgaaca ctaggaact gaaaggtcaa caoagctg ccggccctcc cctggccacac acacagacac gtaataccag accaactca atcccgcga actaagcaa agctaagc aatatagtc aatatagtc aggtctactg gaaatgtgg ctgggaagac tgtttalcc tctgggggga gaacagaacc aaatcacag ctggggggcc agactgtggt tgggtggagg tggggggctc ccactctat cactctcc cagcaagctc tgggacccag gtagccctt ggaatgaac gttgcgtga ggacaatgg ggaacttgg accggctgg cgtgtgtgtt gcaattca gggggggctcag ggaaggttaag gagggtgtg gtgggattcc aaggtgaggg ccaactgaat cgtgggggga gctttatagc cagtgaaggt ggaagggaacc tggcaltgic caagaagag ggcctctggg tgaagagtg accatcacat ttgggaagtg atcaaacct gttctctta tgggggctct gctiaatgt ctatgtgag aacacaggcc ccggccctc cctgtgtag ccatagaat attctggtt gggggcagcag tccctctc cctgaltat ctgcccgt tctacatt acgggtgtat ctcaaalcc tctccatt ttatccct atcaattca agagctccaa tggggctcc agctgaagc cctccggga ggcaggttgg aaggcaggca ccagcaggc ttctccgga tgaatccac tagcagggtc tgaagggtc ccactagat gcaagatga cctctgctc cctcaagc agtgacacat cgggtctt ccgtgtctat ggtgaat cctggatga alggtatca tgaagggtc tgggtgtt tggaggtgt gggggatatt tgggtgtt tttticgag gttccatga aacagccct ttccagcc attgtctg tcaagttc catctgct gaggcaagca ttcttgtt attagcatt tgaacatc cggccattca aagcccat gttctgca ctgttggcc agcalaact ctacatcga ttcaagcag agtttaacc tgaaggcatg gaagtataa atgaagggtg gttctctg agatactcta atcaatcat tgcctttct ataaactac ccataagct ttaacctta aagaaaaag aaaaaggta ggttgggg gccgggggag gactgacccg ttcaagcc agtagctg agctgagt gttcaata acccttgat atttcaaa aaaaaaaa aaaaaaaa MFVASERKMR AHQVLTFLLL FVITSVASEN ASTSRGCGLD LLPQYVSLCD LDAIWGVVE AVAGAGALIT LLLMLLLVR LPFIKEKEKK SPVGLHFLFL LGTGLGLT FAFIQEDET ICSVRRFLWG VLFALCFSL LSQAWRVRL VRHGTGPAGW QLVGLALCLM LVQVIAVEW LVLTVLRDTR PACAYEPMDF VMALIYDMVL LVVTLGLALF TCGKFKRWK LNGAFLLITA FLSVLIWVAV MTMYLFGNVK LQQGDWNDP TLAITLAAG VVVFIFHAIP EIHCITLLPAL QENTPNYEDT SQPRMRETA EEDVQLPRAY MENKAFSMD EHNALRLTAGF PNGSLCKRPS GSLGKRPSAP FRSNVYQTE MAVVLNGGTI PTAPPSHTGR HLW gtggctcga ggtgtggga gggccggcc ctagctccg gagaagcag caggaagcag gctccggag gcaagctcag ctgggaaggaa ccgctcgc tigtctac acttgccaa agtctccga gctactcac atagcatatt ggtatataa aatgaatgc aagggaacca aataacata atgaaggca gaaagtgga aattaaatag gaagatcac agtcaaggaa gacccactgg agaggacaga aatgaagca ggtttatc atgtgatt cagcaggtc tctgaatt taactaaaa tatgactgct ctctctcag agaactgctc ttctacag cagtacgtc aaacaaaca gcccctagac gtaactate tctatctt gatcactt ggggaatat tataaalat cctacacta ggaatgaga gaaaaaac cgttcaaat ttatggat attttgcat ttactagca ttctgtatc</p> | P | Homo sapiens |
| 600 | 190602 | G Protein- Coupled Receptor GPCR150 | NM_014373 | <p>gtggctcga ggtgtggga gggccggcc ctagctccg gagaagcag caggaagcag gctccggag gcaagctcag ctgggaaggaa ccgctcgc tigtctac acttgccaa agtctccga gctactcac atagcatatt ggtatataa aatgaatgc aagggaacca aataacata atgaaggca gaaagtgga aattaaatag gaagatcac agtcaaggaa gacccactgg agaggacaga aatgaagca ggtttatc atgtgatt cagcaggtc tctgaatt taactaaaa tatgactgct ctctctcag agaactgctc ttctacag cagtacgtc aaacaaaca gcccctagac gtaactate tctatctt gatcactt ggggaatat tataaalat cctacacta ggaatgaga gaaaaaac cgttcaaat ttatggat attttgcat ttactagca ttctgtatc</p> | A | Homo sapiens |

| | | | | | | |
|-----|--------|------------------------------------|-------------|--|---|--------------|
| 601 | 190602 | G Protein-Coupled Receptor GPCR150 | NP_055188.1 | ttttactttt gglaaacatt tccattatatt tgaatttcag ggaatttgta cttttaagca ttgggttcac taaataccac atctgcctat ttactcaat tatttctctt acttaaggct tttagcatta tccagtttc ctagagctt gtagagatta ttgccigaat ttctctaaaa caaccaagct ttcatllaag tgcataaat taitttatt ctttacagta attttaatt ggaatttcagt ccttgcttat gttttgggag accaagocat ctaccaagc ctgaaggcac agaatgctta ttcttgctac tgcctttct atgicagcat tcaagagttac tggctgctcat ttttcatggt galgatttta tttagctt lcaataacctg ttgggaagaa gttactact tggtaacagc taccagagata acttccata tgaatgaac taictatatt ttctctttt catccaccic cagttatct gtagagacta aaaaaattt cttatccaag ctcatgctct gttttccag taccttgctta tacttcaggt aatcatggt ttacttaag ttacagttcc agcatatatt gtagatgaata ttccctggtt atacttgct aalagtttc tcatgtctac agtgatggg tttaattgg acagcttaa ttaaaagac attggaattac ctttgatcc attgtcaac tgggaagctt gcttcatcc acttacaatt cctaactg agcaaatgta aaagcctata tcaataatga ttgttaata ttaitaatta aaagtacag ctgtcataag atcataatt tatgaacaga aagaactcag gacatatata aaaaataact gaactaaaac aactttgcc cccgtactga tagcattica gaaatgctt ttgaagggc tataccaggt attaaatagt gttttattt aaaaacaaaa taattocaag aagttttat agttattcag ggaacataa ttacaatat tacttgta ttacacaaa aagtgataag agttaacatt tggctatatt galgtttg ttactcaaaa aaactactgg atgcataact ttatgtaaa ctgagatttc actgacaact ttaagatac aacctaaaaa ttittataa atgtcaaat gtaagcaaga aaaaaaaa | P | Homo sapiens |
| 602 | 190623 | Melanopsin | AF147788 | ggtttccaac catcagaca cagcttccag ccaagacagc ttgggcagca gtagtcagca gtagcatctg gaggctgagg ctctccacgc gggccctctg gctccattgg atggcagagct cggggcagagc gtagctgccag gtagggtgtag gtagcaaaagg tttagagcaa gaggcccatg gggagccctc ccaatggggac agaaagcacag gaggtagaggg gttggggccct gaggtagalct cagtgctcac cgaacagctt gtagtgcacg gcccattggag aaaggacatt gtagggtag acgtgggctt ccaaggccc caggctgggg gttccagct cttgaltt tccctgaggt gctcttga gggctgtag accctgggta tgggattcc cggctcaltgt gtccacctga caagcactt tccctggac tctgtgct gctccatcac ctgcacccc tttaattag caggtagag agtgggggtcc acattgaatt ggaagtttg ttgactcaga atgtctcca gcttgtagga attgtaaac ccttacctaa aaacgcaagc agctggcatt gtagcttaggg atagaaagaa aagccggccc ctacagctca ccttggcccc aggggtggcct ctgtagacca aagccctgaa gtaggaagag ctacagagga aggcagctc agccattgggc tggcagctgc agggaggtaca gctcccgct ccaatggagc tgcctccact tctctgctc aaactgggg ctccagagga actgttga aagactgggg gaaactctg aagaggaag atactctt ccatccagc gctccaacac tccagcact gtagcagac atggccccca cttagagata ccgctggccc gtcgggctcc ctataacgca gctcttgtag gcaaggcttag cccagcagc cctccctggga agccgtgt ttagcttcc ttcttccag ctctctgct cctcttaag acaggcag gggcagagcc ggggtgcccc ccaattctga catcagta acttgatca gggctgtag cctgggttag ttctgggac tctccata aggttttaa aaactttat actttaaaa ttctgccc gccaagtgcc tcaagctgt aatctgcca cttgggag cggaggtggg tggatcact gaggtagga gttcagact agccggcca ataggttgaa ctctggctc tgcataat acaaaatta gccaaggttg gtaggtagg cctgaaatc cagctactc ggaaggttag gcaaggttag tcttggac tgggagggc aagttgcat gactgagat tgcacattg cactocaggc tgggtgacag agcaagctg tctcaaaaaa aataaaaaa aaaaataaa actttctat caaaaaaaa gcaaaaggccc cctgggttag tgalctacc ctactctctg tgcctccatc tgcctcaggg | A | Homo sapiens |

[illegible]

[illegible]

[illegible]

| | | | | | |
|-----|--------|--|-------------|---|--------------|
| 604 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NM_005304 | GTWAAA WVPL PTVDPDHAH YTLGTVLLV GLTGMLGNLT VIYTCRSRS LRTPANMFII NLAVSDFLMS FTQAPVFFTS SLYKQWLFGE TGCEFYAFCG ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRAAFVLLGVWLYALA WSLPFFGWS AYVPEGLTTS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYIFIR AJRETGRALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VILLFVLSWA PYSVAL VAF AGYAHVLTPT MSSVPAVIAK ASAHNPITY AITHPKYRVA IAQHLPLCLGV LLGVSRHSR PYPSYRSTHR STLTSHTSNL SWISIRRRQE SLGSESEVGW THMEAAA VWG AAQQANGRSL YQGLEDLEA KAPPRPQGHAEITPGTKGL IPSQDPRM | sapiens |
| 605 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | atggatcacg gccccgacca gtcctatc tc-eggcaac aciggttcgt ctctcggg taccttcta ctctcgtg ggggctccoc ctaacatgc tggccctggt ggtctcgtg ggcaagctgc agcccgccoc ggtggccggg gacgtgctcc tgcataact gaccgctcg gacctgctc ctgctggti ctgctcttc cgcagtgigg aggcagacca tggcatgcac tggccctgc ccttcaoct ctgcccacac tctggattca tctctcac caactatc ctacccgc tctcctggc agctgtgagc atgzaacgt tctgaggtt gggccaccca ctg'tggtaaa agaccggcc gaggctgggg caggcaggtc tgggtgaggt gggctgctgg ctgttggcct ctgtctacig cagcgtggc tacgtacag aattctcagg ggacalcctcc caccagccagg gcaacatgg gacctgtac ctggagttoc ggagggacca gctaggacc ctctgccc ggcggctgga gatggctgig gtctcttg tggccggt gattcacc agtactgt acagccgct ggttgggac ctggcagag gggcgagcca ccggccggcag aggggggtg cggggctgt gggcgccacg ctgtcaact tctgtctg ctggggcc ctggagcct ccactgt-gt gggctatc tgggggtaaa gcccggcag gaggatctac gtagccttc tcaaacct gnaactctgt gtcgacccct tigtacta ctctcctcc tccgggtcc aagccgact tcatgagct ctgagaggt tgtgtgggct ctggggggcag tggcagcag agagcagat gggagctgaag gacagaaagg gaggggagga gacagagcg gaccgaocag ctgaagaaga gaccagtaa caticacag gctgtggaac tggggcag gggccctg ctgaagcta g | Homo sapiens |
| 606 | 190701 | C-C Chemokine Receptor 11 | NM_016557 | MDTGPDSYF SGNHWFVSV YLLTFLVGLP LNLALVVFV GKLRPVA V DVLLNLTA S DILLFLFP RMVEAANGMH WPLPFLCPL SGFIFFTTIY LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPLIT SYCYSRLVWI LGRGSHRRQ RRVAGLLAAT LNLFLVCFGP YNVSHVVG YI CGESP AWRIY VILLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLWGQ WQJESSMELK EQKGEEQRA DRPAERKTSE HSQCGGTGGQ VACAES caagactgt ctctctgoc gactaaca gatggagcc atggcttgg agcagaaca gtaacagat tattatag aggaataga attgatggc actatgat acagtaata tgaactgat tgrataaag aagatgtag agaatgca aagtttcc tccigtatt cctacaata gtttgca tgggactig aggcaatcc atgtagtgg caattatgc ctattacag aaacagaga ccaaaacaga tgtgtacac ctgaattig ctgtagcaga ttactcti ctatcac tgcctttg ggcgtgtaat gcatgicag ggtgggttt agggaaata atgtgcaaaa taacticagc ctgtacaca ctacttgg atcttggat gcatgticg gctgtatca gcalagacag atatggca gtaactaaag tccacagcca atcaggagtg ggaatacat gctggatcat ctgttctgt gctggatg ctggcatcti gcttagcata cccagctig tttttatc agtaatgac atgtctaggt gcaatccat ttccccgc tacttaggaa catcaatga agcatgatt caaatgtcag agatctgcat tggatttga gtacccttc ttattggg ggtgtgtac ttatcacag caagacact calgaagag ccaacatta aaatatcag accotaaa gtttgtctca cagtgttat agttttcat gtactcaac tgcctataa catgtcaag tctgcccag catagacat catctact ctgatacca gctgcaacat gagcaaacg atggatcatg ccatcaagi cacagaaag atcgacatct ttacagctg cctcaacca atccttatg | Homo sapiens |

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|-----|--------|---|-------------|---|---|-----------------|
| 607 | 190701 | C-C Chemokine Receptor 11 | NP_057641.1 | <p> ttttttggg agcatcttc aaaaactiag ttttgaagaat ggcccaagaaa tatgggtctt ggaagaagaca gaagacacaaat gtggagagagt ttcttttga ttctgaagggt octacagagc caaccagtiac tttagctatt taaaggtaaaa actgtctctg cttttgtg gatacataig aatgatgctt toccctcaaa taaacatctt gcatattct gaaactcaaa tctcagagc oggtgtgttga acttaata aagaatgggt tgggggaaggg ggggaagaa taaagccaaaga agaggaagaa agataataaa tgaacaaaac atgaataata aaatgaacaa tataggzaaaa taattgtaac aggcataaagt gaataacact ctgtctgtaac gaagaaagagc ttgtgtgtga taattttga tcttgggtgc agtgggtgctt alacaaatct acacaagtga taaaalgaca cagaactata tacacacatt glaccaatt caatttcttg gttttgacat tatagtataa tgaagacatt gggggaagact ggggtgaagggg taccagagac cactctgtac cacttttga acttctgtg aatttataat aatttcaaaa taaaacaagt taaaaaaaaa occactatg tataagttag gccatctaaa acagattatt aaaagaggtic atgttaaaag gcatattataa ttatttttaa ttactaagt ttaatacaa gaacgatttc cctgcataat tttagtact gaataagat gcagcagaac tccaactatc tttttcttg ttttttttaa atttgaagt aattttataa aatlocactc ctccaataaa gcaataaaaa aaaaacaaac tataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa </p> | P | Homo sapiens |
| 608 | 190705 | G Protein- Coupled Receptor SALPR | NM_016568 | <p> gatttgggga gtaagcgc agtgcocacag tgaacggggg acagggagag ggggaagtctg cgtgtatcat aaggacatag ggaactccag ctggccttga gaaacttgg acgocagtg ctgctctac gggctgtcat cctcaactct gctccaagc agcgcctga ctaactctt gcttccaggg ogttcgtctg ggcacagggac ggccttagta cccagtctct gggctctctc ttcaagtact gctttgaag ctccacgca cgttccggcag gctagccttgg caacaaact ggggtgaacc gttttatct aggtctgtc cccagaaca tgaacttag gtaactgagc atgcagatgg ccgtatgtagc cagctagacc accatgaata aggcagcagc cggggacaag ctatgagaac tcttcagtct ggttccggac ctctggaggg cggccaacac gtagtggtaac gctgtctg agcttccgga ctgtgtgtgt gtagtggggc tggagtggc ggaagggcggc cggccaagac atccccggg cagcggcggg gcaagaagc cggacacaga ggcocgggtg cggatctca tgaaggtgtgt gtaactgggtgt gttgtggccc tgggggtggc gggcaactct ctgttctt accatgaag gtagcagcag ggcgtggggc agtctctat caactctc gtcaccaac tggcgtgac ggaattttag ttgtgtca cctgctt ctgggggggt gtagaacgtct ttgacttcaa atggcccttc ggcagggcca tgttgaagat cgtgtccalg gtagcgtoca tgaacatga cggcagcgtg ttcttctca ctgccaatgag tgtgaagcgc taccattggc tggctcggc tctgaagaag caccgggaac gtaggaacggc ccggggcgac tctgtcgccc ggaagcctggg ggaacagctgc tctctcgg ccaagggcgt gttgtgtgtgt atctgggtgt tggccggct ggcctcgtct cccagtcca ttctccac caccgtcaa gtagtggggc agtagcgtgt cctgtgtgtgt ttccgggaca agttgtgggg ccgcgacagc cagtctggc tgggcctta cacttcgacag aaggtgtgtgt tgggtctgtgt gcttccggctg ggcacatta tctgtctta cctgtgtct gttgtgtct tggcgtctca tggcgaac cggcgcgggc ggggaacaaag gtagggggcgc gtagggcga ggaagcggcc cgggaagccag cggccggaga ctgttgaag tccaatgc agtgaacatc gttgtctgt ccttctct gttgtgtgt ccaacagg cgttccac ctggagcalt ctatcaagt tcaacgggt ggccttcaag caggagatgt tctgttcca ggaatagcgg ttccgtgtga ggtgtgtgt agcgcactcc aacagcttgc tcaacccgt cctctactgc ctgtgtggc gtaggttccg caagggcgtc aagtagcctgc tgtgtgtgtct ggtgtgtct tcatcaca gcatggccc cttccggcc actaacagg cgggaagcaga ggaatggggg ctgcagggccc cggcgcgccc ccacggcgccc </p> | A | Homo sapiens |

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|-----|--------|---|-------------|--|---|-----------------|
| 609 | 190705 | G Protein- Coupled Receptor SALPR | NP_057652.1 | <p>gaggagcgg acctgctcta ctaccacct ggcgctcgtgg tctacagcgg gggcgcgctac gaactgcctgc ccagcagctc tgcctactga cgcaggctc agggccaggg cgcgcgctg gggcgaagtg gcttcccg ggcggtaaag aggtgaaggg atgaaggagg gctgggg</p> <p>MQMADAATIA TMNKAAGGDK LAELFSLVPD LLEAANTS GN ASLQLPDL WW ELGLLPDGA PGHPGSGG AESADTEARV RILISVYVW VCALGLAGNL LVLYLMSMQ GWRKSSNLF VTNLALTDQ FVLTLFWAV ENALDFKWPFF GKAMCKIVSM VTSNMNMYASV FFLTAMSVTR YHVSASALKS HRTRGHGRGD CCGRSLGDS CFSAKALCVW IWALAALASL PSAIFSTTVK VMGEELCLVR FPDKLLGRDR QFWLGLYHSQ KVLGFVLPL GHILCYLL VRFIADRRRA GKGGAAVAG GRPTGASARR LSKVTKSVTI VLSFFLCWL PNQALTTWSI LIKFNAPFS QEYFLCQVYA FVSVCLASH NSCLNPVLYC LVRREFRKAL KSLWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYPP GVVYSGGRY DLLPSSAY</p> | P | Homo sapiens |
| 610 | 190711 | G Protein- Coupled Receptor GPR85 (SREB2) | NM_018970 | <p>ggcagagga ttactgct gctcaagat cagattatta cgtagagaa gattttat ttgttica ttaacagat attataagc aaaaagcatg cagaaaaaga agcagacgt ttactaggg aattaatgaa agcgctcgt ctagtttgg gtagagagaa tgggaagtg ttgcttaaaa ttatata cctocaaaa caaaactct cggaaatgg aaataaaga aatgcatgat tctagagca ttctaaaga ccacgctg aggtttgg gttctggg taltccga cgtttggg tggtagggc ttactgagag ctcacttct ggaaagccti acaagactga ggaatcatag actgcgaalc accgggaacg gttcttgc agcacaagaag caatctct cccatcttc gcatattctg atggcaaac aatgggaaga aaagaggaag calgactgca gatcagatca gttcttgg tggataat ttacgtaaa atgattggat ctactttc ctgtttta taltatgac atgagactg actgagctg taltcttalc ctccatccat ctatggcgaa ctatagccat gcaactgaca acatttga aaatctctg ccttaacag cettctgaa actgactcc ttgggttca taalaggagt cagcggtggg ggcaacctc tgaatccat ttgctagtg aaagataaga cttgcatag agcacttacc tacttctgt tggactttg ctgtcagat atctcagat ctgcaatg ttccattt gtttcaact ctgtcaaaa tggcttacc tggacttag ggactctgac ttgcaagtg attgcttct tgggggttt gttctgttc cacactgtt tcatgctct ctgcatcagt gtcaccagat acttagct cgcaccatc cgtcttata caaagaagct gaacttgg acgtgtctgg ctgtgactg taggtgtgg actctgtctg tggccatggc atttcccg gtttagacg tgggactta ctatcatt agggaggaag atcaatgac ctccaacac cgtctctca gggctaatga ttcttagga ttatgtctg ttctgtct catctctta gccacacagc ttgttaoct caagctgata ttttgtcc acgatcgaag aaaaatgaag ccaagtcagt ttgtagcag agtcagccag aactgggacti ttcatggctc tggagccagt ggccagcag ctgccaatg gctagcagga ttggaaagg gttccacac accacctg ctgggcalca ggcaaaatgc aaacacaca ggcaagaaga ggtatttgg cttagacgag ttcaaatgg agaaaaaat cagcagaatg ttctatataa tgaattct gtttcaacc ttgtggggc cctacttgg ggcctgtat tggagaggti ttgcaagagg gctgtatgla ccaaggggat ttctaacag tgcgtctgg atgatttg ccaagcaggg aataatcct ttgtctgca ttctcaaa caggggagctg aggcgctgti tcagcacaac cctcttacc tgcagaanaa ccagggttacc aagggttaact tactgtgta tatgggggag catctgtaaa tcttagcct ttgtgaaact aactctct gctgagcaat tggggccat agccattt tgaagaaga ttcaagaag gaatcagcag tttaaggat ttggcaaca ttctgcatg ttggcaalag ttacatata atctattt aaatctaga gtgactgc tgaactgcag caaagggttg taataaaga gggaactgaac cactgctta agtttcta ttgtgtcaaa aactagataa tgaagtagc aggtgttaag tatcagtgct aatgctctg tatgtacta ctatgaaa aactcaaaa aacaatagc attggacatc ttaataaait aagttagat taggttaaat tggtaaaa aactiaait agaaagttga agactttaaa acatttata ctactatgt tttgcaaga ctaaaatatt tgggactga agtactgta atccataaa gacgtgcca tgaattatg gaatacaca cttaaaaac cgctctgtaa gttctggggga gcatccaaa gcatgtatatt ggttccaat agagttaatt tttttgat taatataatg ctatttcaa</p> | A | Homo sapiens |

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|-----|--------|---|-------------|---|---|-----------------|
| 611 | 190711 | G Protein- Coupled Receptor GPR85 (SREB2) | NP_061843.1 | <p>ataccactt cctcatctac tagtaagatt gctagcattg aacigtatta tgggtttt gttgatttg tataaagtt ttccaatca ttatattt acaaatgctia gatattggc tgggagcaa cattaatgt accagctgt cacacitgag cagttctaat aatgcagaat aaatacatgt tgccttaag ggttaicag tatcttcatt ctattagc actggagcaa atagocaaagg gaaatacaat cagtaacitgg tcatgtcat gcatcaaaa gtgcatggaa gatcattat tacttttcc ttttttcc acatgggttg aaactaaag tgcacalcac tgaataaag agatttct ctagggttg ctaccttc taaactgc taagaagcag gcagttgatg tatgttata tttaagica gctgtcaagg ggaacacaca gcocttagtat gacatctgc acaatttg agcaattat tctactgaag gcacagctt gtttactt tctgcacat caggttatg gtaattaaa ttattcagt ttaactgt gaaagcttat attatgatt ctgggtattt agaaatacat tagagictgt ggtctcatt cttaagata cagatgtg aactcaata taaagtga ttgocaaaa ttaccocgtg tagcctgta atttctga aataagttt acatttttg cacatacaa cgtttttt aatttggag gcaagcaca aactaggaaga ctactttat tatgttttg cttttgatt ctgttagctia ctatacca gactggaat gttatgaatg taatcaaat aatgtcgata aactgacata atatatctg taaagcatt attgttagt ttattaat catcctctia ttattctaa atgccagtag tatttagaga tgttactctg cttagtaat tggctcagaa tttaataa aacalcac ttaatttg agcatagac catagaaat tgggttcta aatacaaac ttgtaagaag aatgtttac actaacata tgcataaact agaaaaagt attattttg ttgcttct gttgtttgt ttattgttg gttttgta agttattt ttttttgta ttgataat aagattagga atctaatac acagaattcc atattgtat agtactctg taagaagaat atcaatata ataggaataa taatacaatg aaatgttca atgttaaaa aaaaaaaa aaaa MANYSHAADN ILQNSPLTA FLKLTSLGFI IGVSVVGNLL ISILL VKDKT LHRAPYYFLL DLCCSDILRS AICFPFVENS VKNGSTWYTG TLTKVIAFL GVLSCFHTAF MLFCISVTRY LAIAHHRFYT KRLTFWTCLA VICMVWTLVS AMAFPPVL DV GTYSFIREED QCTFQHRFR ANDSLGFMLL LALLLATQL VYLKLIFFVH DRRKMKPVQF VAAVSNQWTF HGPASGQAA ANWLAGFGRG PTPPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TFLFLLWGP YL VACYWRVF ARGPVVPGGF LTAADVWMSFA QAGINPFVCI FSNRELRRCF STTLLYCRKS RLPREPYCVI</p> | P | Homo sapiens |
| 612 | 190725 | G Protein- Coupled Receptor GPR26 | LG93120 | <p>aggcttaggg agctcttc cagctggcc atcggtccc actgggggggt gctgtcaag tgcctgggt acagcaaggc cgcalccgac ccccttggt actccttact ggcacacacag tacgcacaaa gctgcaagg gatttgaac aggcctctgc acagagctc catccactcc tctggctcta caggcgactc tcacagccag aacattctgc cgggtgtcga g MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRROA PALFTLNLTC GNLLCTVNM PLTAGVVAR QPAGDRLCR LAAFLLTFLA ANSMLSMAAL SIDRWVA VVF PLSYRAKMRL RDAALMVAYT WLHALTFPA ALALSWLGFH QLYASCTLCS RRPDERLRA VFTGAFHALS FLLSFVVLCC TYLKVARFHC KRIDVITMOT LVLVDLHPS VRERCLLEEQ RRRQRA TKKI STFIGTFLVC FAPYVITRLV ELFTVPIGS HWGVLSKCLA YSKAASDPFV YSLLRHQYRK SCKEILNRLH HRSIHSSGL TGDSSHQNIL PVSE</p> | A | Homo sapiens |
| 613 | 190725 | G Protein- Coupled Receptor GPR26 | LR26 | <p>atggccaaca ctaccgaga gcocttaggag gtgagcggcg ctctgtccc accgtccgca tcaagttat tgaagctgg actgtggga ctgattatgt gctgtagcct ggcgggtaac gcaattctgt cccgttgggt gctcaaggag cgtgcccgtc acaaggctcc ttactatc ctgttgacc tgtccctggc cgaatggca cgtctggccg tctgtccc cttgtctg gcttctgctc ggcacggctc ttatggacc ttacgtgac tcagtgcaa gatttggcg ttatggcg tgcctttg ctccatgcg gcoctcatgc tgttctgcat cagcgtcacc cgtctacatgg ccacgcca ccaccgttc tacgccaagc gcatgacact ctggacatgc gcggctgtca tctgcatggc ctggaccctg tctgtggcca tggccttccc accgtctt gacgtgggca cctacaagt tattgggag gaggaccagt gcaatttga gcatcgtac ttaaggcca atgacacgtc ggccttcatg ctatgttg ctgtctcat</p> | P | Homo sapiens |
| 614 | 190741 | Sreb3 | NM_018969 | | A | Homo sapiens |

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|-----|--------|------------------------------------|-------------|---|--------------|---|
| 615 | 190741 | Sreb3 | NP_061842.1 | P | Homo sapiens | <p>ggcagclaac calgtgtct acggcaagct gctctcttc gaggatctgc accgcaagat gaagccagtg cagatggtgc cagccatcag ccagaaatgg aattccatg gtcccgggggc caccggcag gtctgtgoca actggatctgc cggcttggc cgtgggocca tggccaccaac cctgtctgggt atccggcaga algggcaltgc agccagccgg cggctactgg gcatggacga ggccaagggt gaaaaggcagc tggggccgcat gtctacgcg altacactgc tcttctgt cctctgggtca cctcatcg tggcctgcta cggc-gagtg ttgtgaaag cctgtgtgt gtccacccg tactgtgoca ctgtgtttg gtaggttc gcccaggctg ccgtcaacc aattgtctg ttctgtctca acaggaaact caagaagtg ctagaggact acgccccctg ctggggcaca ggaggggccc cggctccag ggaacctac tgtgtcalt ga</p> <p>MANITGEPEE VSGALSPSA SAYVKLVLLG LIMCVSLAGN AILSLVLKE RALHKAPYYF LLDLCLADGI RSA VCFPFVL ASVRHGSSWT FSALSCKIVA FMAVLFCFHA AFMLFCISVT RYMAIAHHRF YAKRMTL WTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRF YKANDTLGFM LMLAVLMAAT HAVYGKLLLF EYRHRKMKPV QMVP AISQNW THGPGATGQ AAANWIAFG RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQLGRMFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVVMSF AQAAVNPIVC FLNKLKDKK LRTHAPCWGT GGAPAPREPY CVM</p> |
| 616 | 190742 | G Protein-Coupled Receptor H7TBA62 | E32367 | A | Unidentified | <p>gagctctgc cacagactag agcaggaaag ggggggaaag cggcgataga ggtagcagg aatgttaat tatcaggagc aggaacagaa ctggaggcat gccaggtcc acacaggccc tcataggccc agtgttcca gtggggaggga aacaggaaag tggacttc tctcttt cctccctc tctagctc aaggtcactg ctgtgagat gaaltccaac ctgtttagt tggcactgt ccttggggcc ggtaalagc tctcagtao cttctggcac aaacaccca aactctct tgaataat attacaaa atgtclatt cacatgatt ctctattg alcatggcac tctgtgaag cagacttacc tgaataatt aagcaapaaa acaggcttag</p> <p>ggggagaaag taacttcc agtcacagg clagtgtgca gcaagtctgg gactccgag cctccgtct tctctct ggacacocat gctgaltccc tggctatg ccacttcca ggccccctg ttgggcccc aagggaacac ttgtgcaga gggaggaggc cctgcactg ttaggaaag aggcagctct agtttgggtc ctgtcatc tgggacagg gaaatocag ctctctct gggtggagg cttggggctg cctccatag cggggtaact ctcccttc cctccctct ctgccatta gaggccccct tactcctcc cgtacagaca tatccctgg cattcaggct ggtctctgccc ctgccccac taacccaat ctgaccaac aggaaagggg tgggtgttcc ttccacac cttccctg aggtgtggg gttgggacagg gctacacaga ggccccagg aagcacttaa ttctacagcc tcttctag agccttcat ggctctgccc agtgtggcag acactggcag acctcttc tcaaccac caatcttga tggccctgga tggccact caatctct gctctccac ccacatttt ctggggccaaat gctctggag gcagtgtgt gtagtctgat gtagtctga tggcttcca altocctgccc ctgaggtctca tgggtgccc ggctatggg cttgtggggc ccattggctt gctgggaaat ttggcggtgc tgggtgtact gtagtaact gcccggagag cccctggccc accttcag acctctgt tcaacctggc tctggcgagc ctgggactgg cactcact ccccttgg gcaagcaggt cggcacttga cttacatgg ccttcggag gttccctctg caagtaggt ctgacggcca ctgtctcaa cgtctagcc agcalcttc tcatcacag gctgagcgt gctcctact gggtgtgtggc calggctggc ggggccaggcca ccaactct actctctgg gcccgaalag ccacocctggc agtgtggggc gctggctgccc tgggtacgtt gcccacagct gctctgggg tggaggggt gtaggtgtgt gttggccttt gctgtctg tttccagg aggtactggc tggggggccta ccagctggc aggtgtgtgt tgggtttcal gggtccctgg gggtgtatca ccacagctia cctgtctg ctgggtctcc tggcagggc ggcaaggcgg cggcagagaca gcaagggtct ggccccctct gttccgctac tgggtgtctt cttctctc tgtgtttt ccaaacatgt ggtcacttc tgggtgttcc tgggtgtgt gtagcctggc ccttggaaaca gtagtctca tactatcag actgtgt tccctgtac tactgtctg gacacagca alagctgct caacctgt ctgtactg tctggaggc ggaggccccg caggctctgg caggcaact cagggaactc gggtcaggc tggggccca gggtcaggc tgggtgcaac aggtggccct</p> |

aaagcajgja ggcajggcgj ggjcgcaag caaocccgg ggagcgcgcc ctctaccc gctcaacaac ctggacagag
 ggacacccgg gjaagggcg caagcgagac acactctct tctgagac cacacaggt aggatccgt agtccgggg
 agaaagctgg ccctctgcca ggctcgaggg ccctcagggg aaaaagctgja tcttgatcc ccaactctgg ggggggja
 tgggggaggg ggggggcgag atcagagcg gajgagaca agcttaagct ttatttggja gajgggaaag aaagggatct
 ggaataaac ctctggjatta tccacaatt gcttgacct ttatccag ttaccctcc agttcagat ggjaacaaag gattcggtg
 tccattctg ctctcgcaag aatacctagg aaaaacttcc taagggtct aggtctaatga atcagaggtc agtggccalc tctctgja
 ccaacccccc acctcaaac aggggatacc ttgtctct ccgggataaa ggocaaaaat gctgtagttc cctgjaaggg
 ccttaacalc tcaagggtgja ccactjaaac ttgctggctg cagggggctc agtgcataaa gctgtagttc cctgjaaggg
 atggcagggtg tgggggtatg ctggjaattc cagcaactgc cagggccctgg gttgaaaaac ctgggtcgta cgggggtggc
 tgggtctc ccttaaac aggtattgja agaaagtgja alaatgaca gtaaaagaca tgggtgggt ggagggjaagt
 gaggagatta aggggggggg gggtgggggg aacaggctgc aggtagagcc agaaaagcag agactccaga aaggtggct
 agtccctcc gcccacaaag caaagccag agtaataat tgaagtcag agcaactgja ttacagctt laccitcagc aaattactt
 acctctgt acctcactg tctcaactg aaaaagggt actaaaggt taacagtgja atatactgt agctattt ctgtgtgt
 tgggtttg ttgagagag agtctgttc tgcggccag gctggaggtc aggtgggtg tctcagctca ctgcaactc cgttccgg
 gttcaagga ttctctggcc tcaagctccc gaggagctgg gactacggc tccggctacc agtccggcc aattttgt aattttaa
 agagagagag ttacacata ttggccaggc tgggtcataa ctctgacct ctggagct tctggagct gcccactcg gctcccaaa
 gttctggag taccggcggt agccacggca cccgggtcag ctattatct tacacctgt gtaaaatggja gacagagagja
 tgggggjaaa taagctgca gctggggat gggtgggggg aacatgctc cagctgggaa ggttgtagat gctctgaggt
 gggtataat gaaagctca cataagagac tcaagggtg gcccataagc cctcttga aggtgtgtct cagggacagg
 ggtctctt tggttctgt atggagagc atcaalgja aaggttagcc atcagaaaggja ttcttagga ggcaagccct
 agaaaggagg gaggagagg gaagatgagg tagagtc
 MPTLNTSASP PTFWVANAS GSVLSADDAP MPVKFLALRL MVALAYGLVG
 AIGLLGNLAV LWVLSNCARR APGPSDTFV FNLAALDLGL ALTLFWAAE
 SALDFHWPF GALKCMVLA TVLNVYASIF LITALSARY WVVMAAGPG
 THLSLFWARI ATLAVWAAAA LVTVPTAVFG VEGEVCGVRL CLLRFPSPYW
 LGAYQLQRVV LAFMVPLGVI TTSYLLLLAF LQRRQRROD SRVVARSVRI
 LVASFLLWF PNHVVTWGV LVKFDLVPWN STFYTIQTYV FVTTCLAH
 NSCLNPVLYC LLRREPRQAL AGTFRDLRLR LWPQGGGWVQ QVALKQ
 atggacaagg actgcatga gtaccatga gactattt tctctgja cggcggaggg ccatggggca tcaattggja
 gtccggcc atactggca tgggtgac aattctgja ctcttagcat tctctctc calgggaaag atccagact gcaagccaggt
 gaalgcttc ccaacccag tctctctc ctggaggtc ctggggctct tggagctgc ttggcttc atcagagc tcaatcaaca
 aactggcccc gtagctact ttctttgg gggtcttt gctctgt tctcagct cttagctat gctccaalc tagtgaaagt
 gggtgggggt tgggtctt tctctggag gacaattctg tgcattgja ttgggttggca tctgttggca atcattatg ccactgagja
 tgggtctc atcagacca gaggatgat gtttgat atgacacot ggacgtcaa tgggtactt gttgacttc tgggtatgt
 cctctctg atggccctca catctctt cccaagcc acctctgt ggccgggtgja gactgggag cagcatggja
 gggtcatct taccatgt ctctctca tcalcatgt gggtgggtgg alctccalg tcttgagagg caaocccag ttccagggag
 agccacgggt ggagagccgg gtcgtctgca tgggtctgt caccacga tgggttttc tgggtctgta catgtctc
 gaggctgca ttctacag atgggtgja caggaggtcc cttacagg caalgctgc cccgtcacag cctacaca
 cagcttccaa gggagagacc aggggtctc caggcccca gacaggtat gagggtgagja ggalgagca ttaactcat
 atgggtactcc callcagccg cagagctgt atccacaca agaggtttc atccacagg ctacaaag cccocagca

P Homo sapiens

A Homo sapiens

617 190742 G Protein-Coupled Receptor H7TBA62 ENSP00000201 359

618 190743 G Protein-Coupled Receptor GPRC5D NM_018654

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|-----|--------|--|-------------|--|-----------------|
| 619 | 190743 | G Protein- Coupled Receptor GPCR5D | NP_061124.1 | gatcaggag gaggataa MYKDCIESTG DYFLLCDAEG PWGIIIESLA ILGIVVTILL LLAFLEMRK IQDCSQNVNL PTQLFLLSV LGFLGFAF IELNQQTAP VRYFLGVLF ALCFSCLLAH ASNLVKLV RG CVSFSWTIL CIAIGCSLLQ IIAIEYVTL IMTRGMFVN MTPCQLNVDF VLLVYVFLF MALTFVSKA TFCGPCENWK QHGRLLFITV LFSIIWVWV ISMLLRGNPQ FQRQPWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPOQ DAGGV cgggcaggig ggggaacccc cigaagagig ccttggtcac agaaccttg aagacagcca ttggccatigg ggaaccaacc agagocctggc ctggagagcca ggaatggccat ccacaagacc ttggatagt gcttggagct gctctcttc ctgtccacg gggocctgggc ccaggcccat ggcacacccg gctgcagcca aggcctcaac cccctgact acaacctgig tgaaccgctct ggggcgfggg gcatgctct ggaagccgig gctggggcgg gcatgtcac cactgttgg ctacacatca tcttggfggc cagctcccc ttgtgcagg acacaagaa accgagacctg ctgggggaacc aggtatctt ccttctgggg accctgggoc tcttctgct cgtgttgcc tgtgtgtga agcccgact ctccactgt gctctggc gcttctct tggggctcig ttgccatct gcttctcig tctggcggct cagctcctg cctcaact cctggccgg aagaaccag gggcccgggg ctgggtgac ttcactggc ctctgctct gacctggta gaggatcalca tcaatacaga gggctgac atcacctgg ttgggggacg tggcgagggc ggcocctcagg gcaacagcag cgcaggcctgg gcccgtggct cccctgig cgtcgccaac atggacttg tcatggact catctacig atctgtcig tctgtggc ctccctggg gcttgggg ccttggccg ccttggfgg ccgtlacaag cgctggcgta agcatgggg ctgtgtc ctacacag ccactcgt tgcataigg gttgtgtgga tgcgtatgta tacttggc aacaagcagc acaacagctc cacttgggat gaccocacgc tggccalcgc cctcgccgc aatgocctggg ccctgtct ctctacig atccccagg tctccagg gaccacgtgc agccagagc aagactacca gggggacatg taccocacc gggcgfigg ctatgac atctgaaaag agcagaagg tcaagacatg ttgttgagga acaaggcctt ttcatggat gagccggfgg cagctaaagg gccgggtca ccalacagc ggtacaaigg gcatgtctg accagtgt accagccac tgaatggcc ctgatgcaca aagtctcgc cgaaggagct tagacatca tcttccacg gggccaccg aacaagccagg tgaaggcag tgcacactg accctgggg ctgaagacat gtaactggc cagagaccac aggcggccac accggccgaa gacggcaaga actctcagg cttaagaac cctacgtt gggactagt cagcggfggc gagggaaggc gggcggatt gggggaggcc ctgaggagct gggccgggc aaggagct ctacggctct cctccccig gcaaggcagc aacaatgccc ccagatcgg aaggccctc ctcttgcca gttgtgggt ggggtgcatg ggtgtcccca ccactctc agtgttgg ggtcagga gccaaccca gctctgccc agatcacct cgggggtcac actccagcca aatagtgtc tcgggggtgt ggttggcag cgcctatgt tcttgaga ttctgcaac ttcagagac ttccaggcg ctacaggcctg gactgtc ctctggagg acaagggt cctaataat aatcttctc ttataaaa aaaaaaaa aaaa MGTPQEPGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTTFVLT IILVASLPFV QDTKKRSLLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLGVLFV ICFSCLAHV FALNFLARKN HGPRGWVFT VALLTLVEV INTEWLIT LVRSGEGGP QGNSSAGWAV ASPCA VANMD FVMALYVML LLLGAF LGAW PALCGRYKRW RKHG VFVLLT TATSVAVVWV WVMYTYGNK QHNSPTWDDP TLALALAANA WAFVLFYVIP EVSQVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD | Homo sapiens |
| 620 | 190744 | G Protein- Coupled Receptor GPCR5C | NM_018653 | cgggcaggig ggggaacccc cigaagagig ccttggtcac agaaccttg aagacagcca ttggccatigg ggaaccaacc agagocctggc ctggagagcca ggaatggccat ccacaagacc ttggatagt gcttggagct gctctcttc ctgtccacg gggocctgggc ccaggcccat ggcacacccg gctgcagcca aggcctcaac cccctgact acaacctgig tgaaccgctct ggggcgfggg gcatgctct ggaagccgig gctggggcgg gcatgtcac cactgttgg ctacacatca tcttggfggc cagctcccc ttgtgcagg acacaagaa accgagacctg ctgggggaacc aggtatctt ccttctgggg accctgggoc tcttctgct cgtgttgcc tgtgtgtga agcccgact ctccactgt gctctggc gcttctct tggggctcig ttgccatct gcttctcig tctggcggct cagctcctg cctcaact cctggccgg aagaaccag gggcccgggg ctgggtgac ttcactggc ctctgctct gacctggta gaggatcalca tcaatacaga gggctgac atcacctgg ttgggggacg tggcgagggc ggcocctcagg gcaacagcag cgcaggcctgg gcccgtggct cccctgig cgtcgccaac atggacttg tcatggact catctacig atctgtcig tctgtggc ctccctggg gcttgggg ccttggccg ccttggfgg ccgtlacaag cgctggcgta agcatgggg ctgtgtc ctacacag ccactcgt tgcataigg gttgtgtgga tgcgtatgta tacttggc aacaagcagc acaacagctc cacttgggat gaccocacgc tggccalcgc cctcgccgc aatgocctggg ccctgtct ctctacig atccccagg tctccagg gaccacgtgc agccagagc aagactacca gggggacatg taccocacc gggcgfigg ctatgac atctgaaaag agcagaagg tcaagacatg ttgttgagga acaaggcctt ttcatggat gagccggfgg cagctaaagg gccgggtca ccalacagc ggtacaaigg gcatgtctg accagtgt accagccac tgaatggcc ctgatgcaca aagtctcgc cgaaggagct tagacatca tcttccacg gggccaccg aacaagccagg tgaaggcag tgcacactg accctgggg ctgaagacat gtaactggc cagagaccac aggcggccac accggccgaa gacggcaaga actctcagg cttaagaac cctacgtt gggactagt cagcggfggc gagggaaggc gggcggatt gggggaggcc ctgaggagct gggccgggc aaggagct ctacggctct cctccccig gcaaggcagc aacaatgccc ccagatcgg aaggccctc ctcttgcca gttgtgggt ggggtgcatg ggtgtcccca ccactctc agtgttgg ggtcagga gccaaccca gctctgccc agatcacct cgggggtcac actccagcca aatagtgtc tcgggggtgt ggttggcag cgcctatgt tcttgaga ttctgcaac ttcagagac ttccaggcg ctacaggcctg gactgtc ctctggagg acaagggt cctaataat aatcttctc ttataaaa aaaaaaaa aaaa MGTPQEPGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTTFVLT IILVASLPFV QDTKKRSLLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLGVLFV ICFSCLAHV FALNFLARKN HGPRGWVFT VALLTLVEV INTEWLIT LVRSGEGGP QGNSSAGWAV ASPCA VANMD FVMALYVML LLLGAF LGAW PALCGRYKRW RKHG VFVLLT TATSVAVVWV WVMYTYGNK QHNSPTWDDP TLALALAANA WAFVLFYVIP EVSQVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD | Homo sapiens |
| 621 | 190744 | G Protein- Coupled Receptor GPCR5C | NP_061123.2 | cgggcaggig ggggaacccc cigaagagig ccttggtcac agaaccttg aagacagcca ttggccatigg ggaaccaacc agagocctggc ctggagagcca ggaatggccat ccacaagacc ttggatagt gcttggagct gctctcttc ctgtccacg gggocctgggc ccaggcccat ggcacacccg gctgcagcca aggcctcaac cccctgact acaacctgig tgaaccgctct ggggcgfggg gcatgctct ggaagccgig gctggggcgg gcatgtcac cactgttgg ctacacatca tcttggfggc cagctcccc ttgtgcagg acacaagaa accgagacctg ctgggggaacc aggtatctt ccttctgggg accctgggoc tcttctgct cgtgttgcc tgtgtgtga agcccgact ctccactgt gctctggc gcttctct tggggctcig ttgccatct gcttctcig tctggcggct cagctcctg cctcaact cctggccgg aagaaccag gggcccgggg ctgggtgac ttcactggc ctctgctct gacctggta gaggatcalca tcaatacaga gggctgac atcacctgg ttgggggacg tggcgagggc ggcocctcagg gcaacagcag cgcaggcctgg gcccgtggct cccctgig cgtcgccaac atggacttg tcatggact catctacig atctgtcig tctgtggc ctccctggg gcttgggg ccttggccg ccttggfgg ccgtlacaag cgctggcgta agcatgggg ctgtgtc ctacacag ccactcgt tgcataigg gttgtgtgga tgcgtatgta tacttggc aacaagcagc acaacagctc cacttgggat gaccocacgc tggccalcgc cctcgccgc aatgocctggg ccctgtct ctctacig atccccagg tctccagg gaccacgtgc agccagagc aagactacca gggggacatg taccocacc gggcgfigg ctatgac atctgaaaag agcagaagg tcaagacatg ttgttgagga acaaggcctt ttcatggat gagccggfgg cagctaaagg gccgggtca ccalacagc ggtacaaigg gcatgtctg accagtgt accagccac tgaatggcc ctgatgcaca aagtctcgc cgaaggagct tagacatca tcttccacg gggccaccg aacaagccagg tgaaggcag tgcacactg accctgggg ctgaagacat gtaactggc cagagaccac aggcggccac accggccgaa gacggcaaga actctcagg cttaagaac cctacgtt gggactagt cagcggfggc gagggaaggc gggcggatt gggggaggcc ctgaggagct gggccgggc aaggagct ctacggctct cctccccig gcaaggcagc aacaatgccc ccagatcgg aaggccctc ctcttgcca gttgtgggt ggggtgcatg ggtgtcccca ccactctc agtgttgg ggtcagga gccaaccca gctctgccc agatcacct cgggggtcac actccagcca aatagtgtc tcgggggtgt ggttggcag cgcctatgt tcttgaga ttctgcaac ttcagagac ttccaggcg ctacaggcctg gactgtc ctctggagg acaagggt cctaataat aatcttctc ttataaaa aaaaaaaa aaaa MGTPQEPGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTTFVLT IILVASLPFV QDTKKRSLLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLGVLFV ICFSCLAHV FALNFLARKN HGPRGWVFT VALLTLVEV INTEWLIT LVRSGEGGP QGNSSAGWAV ASPCA VANMD FVMALYVML LLLGAF LGAW PALCGRYKRW RKHG VFVLLT TATSVAVVWV WVMYTYGNK QHNSPTWDDP TLALALAANA WAFVLFYVIP EVSQVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD | Homo sapiens |

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|-----|--------|--|-------------|---|---|-----------------|
| 622 | 190745 | G Protein- Coupled Receptor LGR7 | NM_021634 | | A | Homo sapiens |
| | | | | atgacatcgt gttctgctt cttctacatc ttaattttg gaaaatattt ttctcatggg gggtggacagg atgcaagtg ctccttgcc tattccctt gttgggaact cacaagtgc ttgctcagc tctgcactg taacgggtg gacgactcg ggaatcaggc cgatgaggac aacttggag acaaatggt atgtccatg caattgaca aattttgc cagtactac aaatgactt cccaatattc tttagggca gaaacacctg aatgttgggt cggttctggt ccagtgcaat gttcttgcca aggtctggag ctgactgig atgaaaccaaa ttacagact gttccatggg ttcttcaaa tggtagtga atgcttgc agtgggaact aataagaaag ctctctctg attgtctcaa gnaattatcat gattctcaga agctgtacct gcaaaacat agattatcat ctaatccat ctatgcttc agaggactga atagctttac taaactgtat ctacgtcata acagaataac ctcttgaaag ccgggtgttt tgaagattt tcacagacta gaatggctga taattgaaga taatcacctc agtgcgaatt cccacaccaac attttatgga cttaatttgc ttatctctt agtctgtg aataacgtcc tcacccgttt accgtataaa cctctctgc aacacatgcc aagactacat tggctggacc ttgaaggcaa ccatatccat aattaaaga attgacttt tattctgc agtaatttaa ctgttttatt gttgaggaaa acaaaatta atcaataa tgaataatct ttgcacctc tcagaaact ggaatgatt gatttaggaa gtaataagat tgaataatct ccacgtctt tatcaagga cctgaaaggag ctgtcaaat tgaatcttc ctataatcca atccagaaaa ttcaagcaaa ccaattgat tatctgca aactcaagtc tctcagocia gaaggagtg aaatttcaaa tatccaacaa aggaatgtta gacctttat gaaatctct cacaatatt ttaagaaatt ccagtactgt gggtatgcac cacaatgtcg cagctgtaaa ccaaacactg atggaatttc atctctagag aatctctgg caagcattat tcaagagtg tttgtggg ttgtatctgc agttacctgc ttggaaaca ttittgcat ttgcactga cctatata cagttctgagaa caagctgtat gcatgtcaa tcattctct ctgctgctgc gactgcttaa tgggaalata ttatctggt alcggagggt ttgaocctaaa gtttctggga gaatacaata agcatgcgca gctgtggatg gagagtactc attgtcagct tttaggatct ttggccattc ttgccacaga agtatcagtt ttactgttaa cattctgac attggaaaaa taccctgca ttgtctatcc tttagatgt gttgagctg gaaatgtag acaatata gttctgatic tcattggat tactgttt atagtgtct tcatccatt gagcaataag gaattttca aaactacta tggcaccat ggaatgtct tcctctca ttcaagaag acagaaagta ttggagocca gattatca gttgcaatt ttctgtgt taattggcc gcatatca tcalagttt ttctatgga agcatgttt atagtgtca tcaagtgcc atacaagcaa ctgaatacg gaatacagtt aaaaaagaga tgaatctgc caaacgttt ttcttatag ttactatgc tgcataatgc ttgtatgc ttgttagt gaaatttt ttactgtctc aggtagaaat accaggtacc ataacctct gggtagtat ttatctgc ccaataaca gttcttgaa gttcttgaa caaatctc tatactctga ccacaagacc attaaagaa atgaticatc ggttttgga taactacaga caaagaaaat ctatggacag caaaggicag aaaacataag ctccatcat cactgtgggt gaaatgtggc cactgcagga gatgcaact gatttaatga agccggacct tttccatc cctgtgaaa tgtcactgt ttccaatca acgagactca attctattc atga MTSGSVFFYI LFGKYFSG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV DDCGNQADEH NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV PVQCLCQGLE LDCDETNLRA VPSVSSNVT MSLQWNLRK LPDCCFKNYH DLQKLYLQNN KITSISYAF RGLNSLTKLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL SRISPPTFYG LNSLLVLM NVLTRL PDK PLCQHMPRLH WLDLEGNHH NLRNLTFISC SNLTVLVMRK NKINHLNENT FAPLQKDEL DLGSKNIENL PPLIFKDLKE LSQNLNSYNP IQKIQANQFD YLVKLKSLSL EGIEISNIQO RMFRPLMNL HIYFKKFQYC GYAPHVRCK PNTDGISSLE NLLASHQVR FVWVSAVTC FGNIFVICMR PYRSENKLY AMSIISLCCA DCLMGYLFV IGGFDLKFGR EYNKHAQLWM ESTHCQLVGS LAILSTEVS LLLITFLEK YICIVYPFR VRPGKCRIT VLILWITGF IVAFPLSNK EFFKNYYGTN GVCFFLHSED TESIGAQIYS VAIFLGINLA AFUIVFSYG SMFYSVHQSA ITATEIRNPV KKMILAKRF FFIVFTDALC WPIFVVKFL SLLQVEIPGT ITSWVVFIL PINSALNPIL YLITTRPFKE MIHFWYNYR QRKSMDSKGQ KTYAPSIWV EMWPLQEMPP ELMKPDLFY PCMSLSQS TRLNSYS | | |
| 623 | 190745 | G Protein- Coupled Receptor LGR7 | NP_067647.1 | | P | Homo sapiens |

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|-----|--------|----------------------------------|------------|--|---|--------------|--|
| 624 | 190748 | GPCR Ls190748 | AX147756 | | A | Homo sapiens | <p>gtcttgagggtt ggggggagtgct ggggacaggggg tcaaltgctt gaagcaagtg ctctatccc octagtctct gctgatctag ttgggggctcc agagtggggg ggggaaaggc acttgaaac ttcttgccc ttacgtctt agccatcaaa ctctgagctg ggaatagtg cgaatgaca ggaacttcc ctgggctct ctgggocaca attctggcc ggaagaaaga ggaagaaaga ggttgagctcc ttctctc ctgggoccat gttggttaggc tgcagctgca octctctg ccaataggca tagatgagtg ggttgagcag ggaattgccc acgocgagca gccacaggtta ccgttccagc actaggttaga ggttagacatc ctggcaggcc acctgacaa tgcagtgat aaggaaagggg gttccaggata gggcaagctt ccaatgaga acagacacag tacgggagagc tttagagctg ctgggagctc gttgggagtc ataatcca gccatggctc ctgcatgtc catctttcga atctgtggc tgtcatgga gggcaatctg agcatgtgc agtagaagaa gacaagagg agcatggctg ggaagaaaggcc aacggcaggag aggggtcagca cgaatgtagg gtagaataca gcaaaagagc tgcactggcc ttgtaggca gctgtgtgga acatggggtat tccgagtggg aggaagccaa tggagtaga cactaacac agcccggcaa tgcaggcccc gggcacgaaac ccaatcaga tcttaagta gcccgaaggggc tgcgttagg caaggtactt gtaaaagtg atcaagatga ccgttagggac agaggcgagct gcccgaaggag tgaataagc catccgagg ctgcacaggg tcttctgt gggccggaga gggctggaga gctgtgtgt gtagtagcca gtagtagcca caccatcaa ggtgtcagcc acagcagat tcaagggtga gcaagagctg acatcatat tctgtggat caacagcagc acagccacag ccaatgtgt gtttagaga atgtagagg agggccaggag agcaaggagc actccaaag agaaatga ttcatgtct cgaatggca ggaactacat taccaggca tg</p> <p>MESSFSFGVI LAVLASLIIA TNTLVAVAVL LIIHKNDGVS LCFTILNLAVA</p> <p>DTLIGVAISG LLTDQLSSPS RPTQKTLCSL RMAFVTSSAA ASVLTVMILT</p> <p>FDRLAIKQP FRYLKIMSGF VAGACIAGLW LVSYLIGFLP LGIPMFQQT</p> <p>YKGCSEFFAV FHPFVLTLS CVGFFPAMLL FVFYCDMLK IASMSQQIR</p> <p>KMEHAGAMAG GYRSPRTSD FKALRTSVL IGSFALSWTP FLITGIVQA</p> <p>CQECHLYLVL ERYLWLLGVG NSLLNPLIYA YWQKEVRLQL YHMALGVKKV</p> <p>LTSFLFLSA RNCGPERRPRE SSCHIVTSS SEFDG</p> <p>atggccaact ccacaggct gaagccatca gaagtcgag gctctgggg gttgacttg gacgtgtctg tggaggtggg ggcactgtg ggaacaggcg cgtgtgtgt cgtgtgtgt ggcacggcg gacttgccga cggctctac ctggcgacac tgtgtgtgt ggaactgtg gggcgccgct ccatatgccc gctgggctgt ctggcgccac cggcgcccg gctggcgccg gtcgctgg gcccgcgc atggcgccg gctcgttcc tctccgccc gctcgtggc gctcggcgcc gctcgtgtca ccgaattggc ctggcagct atccgtcat cgtgcaccc cgtcgccag gctcggcgcc gctcgtgtg ctgtgtgt cgtgtgtg tctgtgtg gggctcggg ccttcggc cgtctggg cctgtggg ttgctggc ccggcctct gctgtgtg gctacggcg gcatctgt ggtggcgct cggcgtgccc tggggcccc acggcgggcg cgcgggtccc gactcgtc ggaactctg gataggccc ttcatctt gcccggctc cggcctggc tggcggggg caaggcgcc ctggccccag cgtctggcgt gacccaatt ggaagctgt ggtgctta tggctgtg tgcctggcg ccgacggcg ggcagcgga ggcgaagcg cgtacatg ggtgctac tggcgctg cggctaccc ctctgtac tggctgtg agggccct ggcctggca ctggcgccc tctcgtg tgcactgt ggaactgtg gggctgtcac tggcagggc tggcacccg gggcactct gcaatgccc cagaagcccc cagaaggccc tgcagtaggc cctctgagg ctccagaaca gaccccgag ttggcaggag gggcgagccc cgaalacag gggcaccctg agagtctt cctctga</p> <p>MANSTGLNAS EVAGSLGLI AAVVEVGALL GNGALLVVVL RTPGLRDALY</p> <p>LAHLVVVDLL AAASIMPLGL LAAPPGLGR VRLGPAPCRA ARFLSAALLP</p> <p>ACTLGVAALG LARYLIJHP LRPGRPPV LVLAVVAAA GLLGALSLLG</p> <p>PPPAPPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLG AYGGFVVAR</p> |
| 625 | 190748 | GPCR Ls190748 | CAC39548.1 | | P | Homo sapiens | |
| 626 | 190749 | G Protein-Coupled Receptor GPR62 | AF317653 | | A | Homo sapiens | |
| 627 | 190749 | G Protein-Coupled Receptor GPR62 | AAK12638.1 | | P | Homo sapiens | |

Homo sapiens

A

RAALRPPRA RGSRLRSDSL DSRLSILPPL RPRLPGGKAA LAPALAVGQF
AACWLPYGCA CLAPAAARAE AEAATWVAY SAFAAHPFLY GLQRPVRLA
LGRLSRRALP GPVRACTPQA WHPRALLQCL QRPPEGPA VG PSEAEQIYPE
LAGGRSPAYQ GPPESSLS

NM_021624

Histamine H4 Receptor

190774

628

ggaaagactac acattttagg tagtggatga gaaacataac ttggcagaga ttgctggcgg gattaattg ctaattggac ctcttcac
atttggatgg atgcagagata ctaatagcac aatacaattta tcaataagca ctctgggttac tttagcattt ttatgtctt tagtagcttt
tgctataatg ctaggaaag cttagctat tttagcttt ttgggtggaca aaaaacttag acatcgaaat agttaattt ttcttaact
ggocactct gactctttg ttgggtggat ctocattct ttgtacatc ctacacagct ttgctgaatgg gatttggaa aggaaacttg
tgatttgg ctactactg actactgtt atgtacagca tctgtatata acattgctt catcagctat gtaicgtalacc tgcagctctc
aaatgctctg tctatagaa ctcaacatc ttgggtcttg aagattgtta ctctgaatgg ggcgggttgg gttgctggctt tcttagtga
ttgggcaatg attctagtt caaggtcttg gaaggtatga ggtatgtaat gttgaacctgg atttttgg gtaatgtaca tcttgccat
cacatcttc ttggaatgg tgaatccagt catcttagc gcttatca acatgaat ttattggagc ctgtgggaagc gttgactct
cagtaggggc caaagccatc ctggactgac tgcctgctt tccaacatct gttgacacac attcagaggg agactatct
caaaggagatc tcttctgca tggacagaa ttocctgcat ctcttcac ttcttcac gtagagaaag ttgctctcag ttcttcac
gaaocaaagt gtaatggcaat acaattgctt ocaaaatgg ttcttcac gtagagaaag ttgctctcag ttcttcac gtagagaaag
aactgcttag agocagagaa ttgocaaagt caatggccat tctcttaggg gtttttgg ttgctgggc tccattct ctgtcaca
ttgtcttc atttatcc tcaagcaacag gttcctaaac agtttggat agaatgtca ttgggtcaca gttgttcaat tctttgca
atctcttt gtaatcattg tgcacaagc gttcacaag agcttcttg aaaaattt gtaataaaa gcaacctcta ocatcacaac
acagtggtc agtatctct taaagcaat ttctacat ctgtaaatt ttgctcact ctacactaaa ttgaatcaggt ctggocctta
tctggocct ttactctac caacagatct gcaatttga gtaatgtga aattactca gtaataata gcaatataat atgacttga
aatattttg taaacttga gtaataatg tactatct ttctagct tcaactct ctgtcttt agacttaat tcaatgctga
ttacaanaat ccagttttt ttcttcta tgtccatgc aataacag cttaagtgaa ttctcttt taaatttat cgtatagaa
actatccag ttgaaatc attocctaaa gtaatgaata gtaataaagaa cctctggct ttgggtctggcc aactctgct
tgaatcagttg ttgggttga ttgggttga ttgggttga gtaatgaat gtaatgaat gtaatgaat gtaatgaat gtaatgaat
tccagattt atattctaa tccagttga gtaataaagc ttggttgg gtaatgaat gtaatgaat gtaatgaat gtaatgaat
aggtctcag ttgaatttt ttgggtggcc ttggttggcc aggtatcagaa gttgttggct aggtatcagaa gttgttggct
ttgaatgtatg gttgttggcc ttctcttt ttctcttt ttctcttt ttctcttt ttctcttt ttctcttt ttctcttt
taagagatgg ttgaatgtat gtaatgaat gtaatgaat gtaatgaat gtaatgaat gtaatgaat gtaatgaat
aaattttat ttgttggcc gttgttggcc ttctcttt ttctcttt ttctcttt ttctcttt ttctcttt ttctcttt
aggtcagag atcagagaa tccgttggcc caatgttga cccatctgt actaaatc aaacagttag ctgttggct
ctggcagatc ctgttggcc aggtatcag gttgttggcc gttgttggcc gttgttggcc gttgttggcc gttgttggcc
cctggcaca gtaatgtat ctgttgaata gtaatgtat gtaatgtat gtaatgtat gtaatgtat gtaatgtat
gtaatgtat ctgttgaata gtaatgtat gtaatgtat gtaatgtat gtaatgtat gtaatgtat gtaatgtat
actatggaa ctgttgaata gtaatgtat gtaatgtat gtaatgtat gtaatgtat gtaatgtat gtaatgtat
aatatttt taaataaat tttaataat gtttttgg acagattct gttgttggcc ccaaggtctg gttgttggcc
atcagctcaa cctgttggcc ctgttggcc gttgttggcc gttgttggcc gttgttggcc gttgttggcc gttgttggcc
caccatgct gttgttggcc gttgttggcc gttgttggcc gttgttggcc gttgttggcc gttgttggcc gttgttggcc
aagacaggg attgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc
ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc
ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc ttgttggcc

| | | | | | |
|-----|--------|--|-------------|--|--|
| 629 | 190774 | Histamine H4 Receptor | NP_067637.2 | <p>acatttiatt agtttgggtia tttttttttg tttaaaaca tttttttttt agatgggggttt cttctctgt tgcacagaca ggaatggcagt ggcatgtctt cagctcactg cagccctgac tgcctaggct ccagcaatct tcttaagca ggcctcagag tagctgggac cgcaggcaat tgcacacag cccacataa aatttttaa atgttgctt ttttgaagt gttcttgctt gttcttgctt acaaatitc atttttca tagttaatt catctctcg gaaatattt atgttggtt ctttttaac ttgcagtc ttacacgtt tggatattt calgtttt agaaacttia aaccttiaac ttcaaacat aaaaatacaag tcttttaagt aataagtgic tagaaagt tagaaatgtt tataacat taigccitac attaaagtc aataagaaa alacatgtt aacattcaat aataatttta aaaaattgag aataaaactc tcaataatgc aaaaaaaaa aaaaaaaa</p> <p>MPDTNSTINL SLSTRVTLAF FMSLVAFAIM LGNALVILAF VVDKNLRHRS P Homo sapiens SYHFLNLAIS DFFVGVISIP LYIPHTLFEW DFGKEICVFW LITDYLLCTA SVYNIVLISY DRYLSVSNVAV SYRTQHTGVL KIVTLMAVWV VLAFLVNGPM ILVSESWKDE GSECEPGFFS EYTLAITSF LEFVLPVLV AYFNMTYWS LWKRDHLSRC QSHPGLTAVS SNICGHSFRG RLSSRRSLA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVALHOR EHVLLRARR LAKSLAILG VFVAVCWAPYS LFTVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL CHKRFAQFL KIFCKKKQPL PSQHSRSVSS</p> <p>cccagaccta gaactaccca gagcaagacc acagcgggtt aacagtggtt gagcagacaa gattggagaca aattctctc A Homo sapiens tcccacgaa catctcggga gggacacactg ctgtatctgc tggctatctc tcttgata tcatcacta tctggtatt gcatcacct ttgtctcgg ggtctgggc aacgggcttg tgaatgggtt ggcgtgattc oggatgacac acacagtca caccatcagt tacctgaac tggcgtggc tgaatctgt ttacatcca cttggcatt cttcagtc aggaagacca tgggagaca tggccttc ggctggttc ttgtcaaat ctgttttacc atagtggaca tcaactgt cgggaatgic ttcttgatgc cctcattgc tctggaccgc tgtttttgg tctgtcatcc agtctggacc cagaacacac gcaogtgaag cctggccaag aaggtgatca ttgggacctg ggatgaggtt cttctctca catggcatt tatcattgt gtagacacag taactgttaa aacggggaca gtagcctgca ctttaact ttgcctcgg accaacgacc ctaaaagagag gataaatg gctgtgcca tgtgacgtt gtagggcalt atccgggtca tcaatggct cagcgaccc atgtccatcg ttgtctgag ttatggctt attgocaca agatocaca gcaaggcttg attaaagcca gtgtctctt acggctctc tctttgtcg cagcagcctt tttctctg tggctccatc atcaggtggtt ggccttata ggcacagcca gaatccgta gttatgcaa ggcagtaaa agaaatgg tattgacag gattgacaa gttgacctgc cttctaac agctgacct accatgct ctatgtctc atggggcagg acttcggga gaggctgac cagcccttc ccgacagct ggagaggcc ctgaccgagg actcaacca aacagtgac acagctacca atctatctt acccttgca gagggtgagt tacaggcaaa gtagagagg agctggggga cactticgag ctccagctc cagctgctc tcccttgag ttggctgag cacaggcatt tctgtctat tttaggata cccactcact agaaaaaaa aaaaaagcct ttgtgtccc tgaattgggg agataaaca gataatgatt t</p> <p>METNSSLPNTN ISGGTPAVSA GYLFLDITY LVFAVTFVLG VLGNGLVWV P AGFRMTHTVT TISYLNLA VA DFCFTSLPF FMVRKAMGGH WPFGWFLCKF VFTTVINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIGPW VMALLTLPV IIRVTVPGK TGTVACTFNF SPWTDNPKER INVAAMLTV RGIRFIIGF SAPMSIVAVS YGLIATKHK QGLKSSRPL RVL SFVAAF FLCWSPYQVV ALIA TVRIRE LLQGMKEIG IAVDVTSALA FFNSCLNPML YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDDATNSTL PSAEVELQAK atggaaacaa actttccat tctctgaat gaaactgagg aggtgtctcc tgaagctgctt ggcacacag ttttggat cttctatg A ctagtccacg gattcactt ttcttgggg gtcttgggg gcttgggtt gatttgggtt gcttgggtt gcttgggtt gcttgggtt</p> | |
| 630 | 190823 | Formyl Peptide Receptor 1 (FPR1) | NM_002029 | <p>cccagaccta gaactaccca gagcaagacc acagcgggtt aacagtggtt gagcagacaa gattggagaca aattctctc A Homo sapiens tcccacgaa catctcggga gggacacactg ctgtatctgc tggctatctc tcttgata tcatcacta tctggtatt gcatcacct ttgtctcgg ggtctgggc aacgggcttg tgaatgggtt ggcgtgattc oggatgacac acacagtca caccatcagt tacctgaac tggcgtggc tgaatctgt ttacatcca cttggcatt cttcagtc aggaagacca tgggagaca tggccttc ggctggttc ttgtcaaat ctgttttacc atagtggaca tcaactgt cgggaatgic ttcttgatgc cctcattgc tctggaccgc tgtttttgg tctgtcatcc agtctggacc cagaacacac gcaogtgaag cctggccaag aaggtgatca ttgggacctg ggatgaggtt cttctctca catggcatt tatcattgt gtagacacag taactgttaa aacggggaca gtagcctgca ctttaact ttgcctcgg accaacgacc ctaaaagagag gataaatg gctgtgcca tgtgacgtt gtagggcalt atccgggtca tcaatggct cagcgaccc atgtccatcg ttgtctgag ttatggctt attgocaca agatocaca gcaaggcttg attaaagcca gtgtctctt acggctctc tctttgtcg cagcagcctt tttctctg tggctccatc atcaggtggtt ggccttata ggcacagcca gaatccgta gttatgcaa ggcagtaaa agaaatgg tattgacag gattgacaa gttgacctgc cttctaac agctgacct accatgct ctatgtctc atggggcagg acttcggga gaggctgac cagcccttc ccgacagct ggagaggcc ctgaccgagg actcaacca aacagtgac acagctacca atctatctt acccttgca gagggtgagt tacaggcaaa gtagagagg agctggggga cactticgag ctccagctc cagctgctc tcccttgag ttggctgag cacaggcatt tctgtctat tttaggata cccactcact agaaaaaaa aaaaaagcct ttgtgtccc tgaattgggg agataaaca gataatgatt t</p> <p>METNSSLPNTN ISGGTPAVSA GYLFLDITY LVFAVTFVLG VLGNGLVWV P AGFRMTHTVT TISYLNLA VA DFCFTSLPF FMVRKAMGGH WPFGWFLCKF VFTTVINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIGPW VMALLTLPV IIRVTVPGK TGTVACTFNF SPWTDNPKER INVAAMLTV RGIRFIIGF SAPMSIVAVS YGLIATKHK QGLKSSRPL RVL SFVAAF FLCWSPYQVV ALIA TVRIRE LLQGMKEIG IAVDVTSALA FFNSCLNPML YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDDATNSTL PSAEVELQAK atggaaacaa actttccat tctctgaat gaaactgagg aggtgtctcc tgaagctgctt ggcacacag ttttggat cttctatg A ctagtccacg gattcactt ttcttgggg gtcttgggg gcttgggtt gatttgggtt gcttgggtt gcttgggtt gcttgggtt</p> | |
| 631 | 190823 | Formyl Peptide Receptor 1 (FPR1) | NP_002020.1 | <p>cccagaccta gaactaccca gagcaagacc acagcgggtt aacagtggtt gagcagacaa gattggagaca aattctctc A Homo sapiens tcccacgaa catctcggga gggacacactg ctgtatctgc tggctatctc tcttgata tcatcacta tctggtatt gcatcacct ttgtctcgg ggtctgggc aacgggcttg tgaatgggtt ggcgtgattc oggatgacac acacagtca caccatcagt tacctgaac tggcgtggc tgaatctgt ttacatcca cttggcatt cttcagtc aggaagacca tgggagaca tggccttc ggctggttc ttgtcaaat ctgttttacc atagtggaca tcaactgt cgggaatgic ttcttgatgc cctcattgc tctggaccgc tgtttttgg tctgtcatcc agtctggacc cagaacacac gcaogtgaag cctggccaag aaggtgatca ttgggacctg ggatgaggtt cttctctca catggcatt tatcattgt gtagacacag taactgttaa aacggggaca gtagcctgca ctttaact ttgcctcgg accaacgacc ctaaaagagag gataaatg gctgtgcca tgtgacgtt gtagggcalt atccgggtca tcaatggct cagcgaccc atgtccatcg ttgtctgag ttatggctt attgocaca agatocaca gcaaggcttg attaaagcca gtgtctctt acggctctc tctttgtcg cagcagcctt tttctctg tggctccatc atcaggtggtt ggccttata ggcacagcca gaatccgta gttatgcaa ggcagtaaa agaaatgg tattgacag gattgacaa gttgacctgc cttctaac agctgacct accatgct ctatgtctc atggggcagg acttcggga gaggctgac cagcccttc ccgacagct ggagaggcc ctgaccgagg actcaacca aacagtgac acagctacca atctatctt acccttgca gagggtgagt tacaggcaaa gtagagagg agctggggga cactticgag ctccagctc cagctgctc tcccttgag ttggctgag cacaggcatt tctgtctat tttaggata cccactcact agaaaaaaa aaaaaagcct ttgtgtccc tgaattgggg agataaaca gataatgatt t</p> <p>METNSSLPNTN ISGGTPAVSA GYLFLDITY LVFAVTFVLG VLGNGLVWV P AGFRMTHTVT TISYLNLA VA DFCFTSLPF FMVRKAMGGH WPFGWFLCKF VFTTVINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIGPW VMALLTLPV IIRVTVPGK TGTVACTFNF SPWTDNPKER INVAAMLTV RGIRFIIGF SAPMSIVAVS YGLIATKHK QGLKSSRPL RVL SFVAAF FLCWSPYQVV ALIA TVRIRE LLQGMKEIG IAVDVTSALA FFNSCLNPML YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDDATNSTL PSAEVELQAK atggaaacaa actttccat tctctgaat gaaactgagg aggtgtctcc tgaagctgctt ggcacacag ttttggat cttctatg A ctagtccacg gattcactt ttcttgggg gtcttgggg gcttgggtt gatttgggtt gcttgggtt gcttgggtt gcttgggtt</p> | |
| 632 | 190824 | Formyl Peptide Receptor-like 2 | NM_002030 | <p>cccagaccta gaactaccca gagcaagacc acagcgggtt aacagtggtt gagcagacaa gattggagaca aattctctc A Homo sapiens tcccacgaa catctcggga gggacacactg ctgtatctgc tggctatctc tcttgata tcatcacta tctggtatt gcatcacct ttgtctcgg ggtctgggc aacgggcttg tgaatgggtt ggcgtgattc oggatgacac acacagtca caccatcagt tacctgaac tggcgtggc tgaatctgt ttacatcca cttggcatt cttcagtc aggaagacca tgggagaca tggccttc ggctggttc ttgtcaaat ctgttttacc atagtggaca tcaactgt cgggaatgic ttcttgatgc cctcattgc tctggaccgc tgtttttgg tctgtcatcc agtctggacc cagaacacac gcaogtgaag cctggccaag aaggtgatca ttgggacctg ggatgaggtt cttctctca catggcatt tatcattgt gtagacacag taactgttaa aacggggaca gtagcctgca ctttaact ttgcctcgg accaacgacc ctaaaagagag gataaatg gctgtgcca tgtgacgtt gtagggcalt atccgggtca tcaatggct cagcgaccc atgtccatcg ttgtctgag ttatggctt attgocaca agatocaca gcaaggcttg attaaagcca gtgtctctt acggctctc tctttgtcg cagcagcctt tttctctg tggctccatc atcaggtggtt ggccttata ggcacagcca gaatccgta gttatgcaa ggcagtaaa agaaatgg tattgacag gattgacaa gttgacctgc cttctaac agctgacct accatgct ctatgtctc atggggcagg acttcggga gaggctgac cagcccttc ccgacagct ggagaggcc ctgaccgagg actcaacca aacagtgac acagctacca atctatctt acccttgca gagggtgagt tacaggcaaa gtagagagg agctggggga cactticgag ctccagctc cagctgctc tcccttgag ttggctgag cacaggcatt tctgtctat tttaggata cccactcact agaaaaaaa aaaaaagcct ttgtgtccc tgaattgggg agataaaca gataatgatt t</p> <p>METNSSLPNTN ISGGTPAVSA GYLFLDITY LVFAVTFVLG VLGNGLVWV P AGFRMTHTVT TISYLNLA VA DFCFTSLPF FMVRKAMGGH WPFGWFLCKF VFTTVINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIGPW VMALLTLPV IIRVTVPGK TGTVACTFNF SPWTDNPKER INVAAMLTV RGIRFIIGF SAPMSIVAVS YGLIATKHK QGLKSSRPL RVL SFVAAF FLCWSPYQVV ALIA TVRIRE LLQGMKEIG IAVDVTSALA FFNSCLNPML YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDDATNSTL PSAEVELQAK atggaaacaa actttccat tctctgaat gaaactgagg aggtgtctcc tgaagctgctt ggcacacag ttttggat cttctatg A ctagtccacg gattcactt ttcttgggg gtcttgggg gcttgggtt gatttgggtt gcttgggtt gcttgggtt gcttgggtt</p> | |

(FPRL2)

633 190824 Formyl Peptide NP_002021.2 P Homo sapiens
Receptor-like 2 (FPRL2)

caagagcaac accatcgtt accggaact ggccctagct gacttctt tcaagtgcat cctaccatt cgaatggctt cagtcgcat
gagagaaaa tggcctttt cgtcatctt algtaagta gtcatgta tgaagacat caactgtt gtcatgctt accgtatcac
catcattgt ctggaccgct gttttgtt cctgcatcca gctggggcc agaacatcag caccatggt ctggccaaga
gggtgagac ggggactctg atttacc aagtocttac ctaccaat ttatctct ggaactaac aagtactacg aatgggggaca
catactgtat ttcaactt gcatctgg gtagacatgc tgaagagagg tgaagatgt tcaatccat ggccaaggct ttctgtacc
tccacticat tatgtgttc accgtgctta tctcatcat cagatctgc tatgggata tggctgcca aattcacaga aaccacatga
ttaalocag c-gtccctta cgtgtctgc ctgtgtgtt ggtctcttc ttactctt ggtccctta tgaactaat ggcattctaa
tggcagcttg gctcaaaag agtgttaa atggcaata caaatcatt ctgtctga ttaoccaa aagctcttg gcttttta
acagctgct caaccaat ttatgctt ttatggctg taactcaa gaaagactga ttgctctt gcccactgt tggagaggg
ccctgactga ggtccctgac tcaagccaga ccaagcaac acacacact tctgttcac tctgtgagg gacggagta
caagcaatg ga

METNFSIPLN ETEEVLPEPA GHTVLVWFSL LVHGVTFVFG VLGNGLVIVV
AGFRMTRTVN TICYLNALA DFSFSAILPF RMVSVAMREK WPFASFCLKL
VHVMDINLF VSVYLITIA LDRICVLHP AWAQNHRTMS LAKRVMTGLW
IFTIVLTPN FFWTTISTT NGDTYCIENF AFWGDTAVER LNVFITMAKV FLJLHFIFG
TVPMSTIVC YGIIAAKIHNR NHMKSSRPL RVFAAVVASF FICWFPYELI GILMAVWLKE
MLLNGKYKII LVLINPTSSL AFFNSCLNPI LYVFMGRNFQ ERLIRSLPTS LERALTVPDP
SAQTSNTHIT SASPEETEL QAM

634 190948 EMR2 Hormone NM_013447 A Homo sapiens
Receptor

cggagacggg acagccctgt ccaactcat ctctccctg ctgtctctgc cggcagctca gcttgaacaa tgggaggccg
cgtcttct cgtctctg catcttgt ctggctgact ctggcgggag ctgaacocaa ggaactccagg ggcctgtgoc
gggtgtgtccc tcaagctcc tctgtgtga algocacccg ctgtcgtctc aatccagggt tcaagctctt ttctgagac
atccacccc ccatggagac ttgtgacgac atcaacgagt gtgcaaacat gtcgaagagtg tcatgcggaa aattctcggg
ctgtctgggac acagaggggga gctacgactg cgtgtgtcagc ccaagatatt agctctgttc tggggccaana acattcaaga
algagagcga gaacacgtgt caagatgttg acgaatgta ccaagaaocaa aggtctctgta aagactacagg caccctgcgtc
aaacacctg gtagctacac gttgocagtg ctgtctgtgt tcaagctcaa acctgaggac ccgaagctct gcaagatgt
ggaatgaagc acctccggac aaaaacatg ccaagctcc accactgoc tcaaacagt gggcagctat cagtgcctg
ggcccccggg ctggcaacgg attccgggggt ccccaatgg cccaacaa accgtctgtg aagatgtgga cgggtgcagc
tccggggcagc atcaggtgtga cagctccacc gtcgtctca acacgggggg ttcatacagc tggccgtgoc ggccaaggctg
gaaagccaga caccggaatoc cgaataaoca aagggacact gtcgtgtgaag atagacttt ctccactgg accccggccc
ctggaggtcca cagccagagc ctctccgat tcttgacaa agtccaggac ctggggcagag actacaagg accgttggcc
aataacacca tcaagagcat ctacaggcg ctggatgagc tgcgtggaggc cccgtgggggac ctgggagccc tggcccgtt
acagcagcac tgtgtgtcca gtacactgtt ggaatgtcta ggaatgtcta tcaagggtcc ggaagagagac ctctccatg
ggctgttgaa cticagttat cctgcagggca cagaattgt cctgtgagtg cagaagcag tagacagggag tgtcaccttg
agacagatc aggcagttat gcaagctcagc tgggaatcag cacaagaatc tgtgtgaccca gggccctctg tgggtggcc
tgtctccat ccaaggagtg gcaagttgtt ggctgtggggcc cctctgttcc tggaaactga gaaagcagatg ctctgtcatg
agacacacca gggtctgtg caggagaggt ccccatct gcttcagat gttatcttg ctttttgag caacacagac
accacaaacc tcaagctccc agttaacct accitctcc accgttcagt gaaatccagg cagaagggtg tctgtgtt
ctgggagagcat gggccaagat ggaatgtgtca ctggggccacc acaggtctga gcaaatagc caccagagac accagcaca
tctgcccgtg caccacctg agcagctttg ccgtctcat ggccactac gaaatgtcagg aggaagagatcc cgtgtgtgact
gtcatcact acatgggggt gaggctct ctgtgtgtg tctctgtg gggccctcat ttctctgt gtaaaagcat ccaagaacac

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|-----|--------|------------------------------|-------------|--|---|--------------|
| 635 | 190948 | EMR2 Hormone Receptor | NP_038475.1 | <p>agcaactcac tgcatacgca gctctcgctc tgcctcttcc tggccaactc octctctctc gtaggcaattg atcaaacccg acaaagggt ctagctcaca tcaatggccg taccttgacc tatctctacc tggccaactc cacctggatg ctctggagg ccctgacct ctctctact gcaaggaaac tgaagggtgt caatactca agatcaaca gattatgaa gaagctcatg ttccctgtgg gctacggagt cccagctgtg acatggcca ttctgcagc ctccaggct caccttatg gaacacctc ccgctgtggg ctccaacag aaaaagggtt tataggggg ttctgggac ctgtctggc catctctc tggaaattag ttctttct ggtagctc tggatttga aaaaagact ctctctctc aatagtgaag tgtccacct cgggaacaca aggaatgctgg cattlaaagc gacagctcag ctgtctatc tgggctgcac gtaggtctgt ggcactgtg aggtgggtcc ggcgtggccg gtatgggct acctctcac calcatcaac agcctgcagg gtagctcat ctctgtgtg tactgtctc tcaagcagca ggtagggag caatatggga aatggtocaa agggatcagg aatitgaataa ctgagcttga gtagctcaca ctctcagca gtagtaaggc tgaaccttc aaacccaaga cggtaacta gaaaactt ctgaaataaga tctctctc tggccgtgtg aaaatctgaa caatcttga gccataga ggggaagaa agaatgtt tctgtgtt tcaagaaat caccatgta gcaatatgaa ggatgtatg gaaggcgtg ttggcatca attctgcag aaaccggaaa tcttccatg ccctgcaatg gctatcaaa ctctcagcat atggagggcc agctgtggcc calatctgg tcaactgaa gcaaalatt tatgaagctia tagaagctia agaatctt cacagctct octctaca agactctc caaatctaa aatgaagcag gaaacaagc ctgaagagac ttctatccg acaacatctg aaaggactag aatgtcaca ccagatctg gattictaa ttittgtt ttgtttgt tgtictag ttctcgggt ttgattatt agtcatgta azaatattg ttactcac atagatcaag agagacacgg ctctgctt calggagct ttaggggaaa atgaaggc tcttgagct agagtgaat cagaagccga aatctcaga aatcagggt ctactgtag gcaattgag tataactat ttataaca ctgtctct tcatctac</p> | P | Homo sapiens |
| 636 | 190955 | Leukotriene B4 Receptor BLT1 | NM_000752 | <p>MGGRVFLVFL AFCVWLTPG AETQDSRGCA RWCPQDSSCV NATACRCNPG FSSFSEIIT PMETCDDINE CATLSKVSCG KFSDCWNTG SYDCVCSGY EPVSGAKTFK NESENTQDV DECCQNPRLC KSYGTCVNTL GSYTCQCLPG FKLKPEDPKL CTDVNECTSG QNPCHSTHC LNNVGSYQCR CRPGWQPIPG SPNGPNTVC EDVDESSGQ HQCDSTVCF NTVGSYSCRC RPGWKPRHGI PNNQKDTVCE DMFTSTWTP PGVHSQTLR FFDKVQDLGR DYKPLANNT IQSILQALDE LLEAPGDLET LPRLOQHCVA SHLLDGLDV LRGLSKNLSN GLLNFSPAG TELSLEVQKQ VDRSVTLRQN QAVMQLDWNQ AQKSGDPGPS VVGLVSIPGM GKLLAEAPLV LEPEQMMLH ETHQGLLDG SPILLSVIS AFLSNNDTON LSSPVTFHS HRSVIPRQKV LCVFWEHQGN CGHWAATGC STIGTRDTST ICRCETHLSSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLC LLLAALTELL CKAIQNTSTS LHLQLSLCLF LAHLFLVAI DQTHGKVLCS IIAGTLHYLY LATFTWMLLE ALYLFLTARN LTVVNYSSIN RFMKKLMFPV GYGPAVTVA ISAAARPHLY GTPSRCWLQPEKGFHWGFLG PVCAIFSUNL VLFLVTLWIL KNRLSSLNSE VSTLRNTRML AFKATAQLFL LGCTWCLGIL QVCPAARVMA YLFTIINSLQ GVFFLVYCL LSQQVREQYG KWSKGIRKLK TESEMHTLSS SAKADTSKPS TVN</p> <p>gccattct catatccgt ggggcagga agccctctt gaactctgac ttacgttct gctggggtt ctggccatt ttctatac ctctgacagc tgcgaggtca tctctgctt gggctttct caagcagaac aatggggggc tctggaaagg ttaaggacc tcagtgcca cttatctat ttgcatctt ccgtgagat gtaggttga aggaagcag gaaggcccat ggtcagatg aagggaaggac tttagttt cttttttt tttagaat gtagctctgc tctgtatc aggtggagt gtaggtgtg gatctagct cactgagcc tcaattctt ggggtacat gattctctg octcagctc ccaagtatg gactatag gcaatgcca</p> | A | Homo sapiens |

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|-----|--------|---------------------------------|-------------|--|---|--------------|
| 637 | 190955 | Leukotriene B4 Receptor BLTI | NP_000743.1 | <p> ctacaccag ctacttttg atgagagaggg ttccacalg ttggccaggc ttggctcaaa ctgctaacat caagtgatct gctccctca gctcccaaa gtgctgggat taccggtag aacacacca acctgcagg atttttgt tttagctt ttgagagagac ttcaaggaaa gtagacalc ctctgtccag gaaaggggta aggggagacc ttctgtatg ctgggttccc ctctggcag ggtggggcag aggcaltact gtctgtc cctactct gtctcaltg ctgagctgc cagctcggcc tcaacttgt gtgtctaaag ttgaaactga tagtagctgt gtagagatag gaaagggta gttccaatct cctggccag atcaaaatc cagactcagc agggtaacca catgggcaag cacaagtag gtgttgggg aagggggag taattggcat tctgtgtgat accaaggaga ccatttgat ttggctct accaaaaga atggagaaat gttgacctt aatggaaaca gtccctttaa gtaaggggag gaaagggggt gctggagat gggcctctt ccaacccta gataagct tgaactgaag ccaaggacag agtgctgccc ccttggcat ttactgt gcccctta aatcaltg taiclaac caaaacaga ccaaggacct agtcaagct ccaacctaca ctcttaata atcaaac aagggcaac aaacaaaa agataltcag altgtagctt ccaaltcag occatttccc ttcttggt accatactt ctctctat atgalact ttacttctt gttcaattt ccagctaga cctgcatct gtagggcacac ctagcttct cactccac accctctt cctctctac ttgctcttc ttgctcttc ttacttggcc ccaacttaa gtaggtctcc ttgctctgg gttggccctt aaaaagact atcccccct ctatgtgagg gtaggggtag ggggttcagc occacccca ggaagagctt tcttccct ctctctct gttgctctt cttctggt gatttagaa acagtcacta gactggggc cagggctttg gtagggggac agatccagg alaggctaa ccaacctg ctagacctg gattggcalt agcttccac cagttctctg caaagctgt aagctccc gacgggcaag aacatacat ctctgcagc acccccctca ctagggttag agttcactt ctgtggtt atcatctg ttgagctg cctggctgt gggcttccc gcaacagct ttgtgtgtgt agtatctga aagggatgca gaaagagctt gtcactggc ttgaggtgt gaaactggcc ctggccgacc ttggcgat gttcactgt ccttttcc ttacttct gggccaaagg acctggat ttggactggc ttgtgtggc ctgtgtact atgtgtggc agtcagcag ttgctcagc tctgtctat cagggccalg agtctagacc gttcactggc gttgtggccg cctttgtt ccaagagctt acggaccaaag gtaggggccc gggcggtgt ggcaggcalt ttgtgtgt ctttctgt gggccacacc gttctgctt accgacagat agtgccctgg aaaaagaa ttgagctgt cttccggcg laaccagc aaggggcacc gggcttccat ctatctct aggtgtgtac gggcttctt cggcttcc ttgtgtgt gggccagctac ttggacatag gggctgtggct acagggccc ggttctggcc gcaagccg caccggcc ctgtgtgt ttactact gacttggc gctctggc gctctggc ttgcttaoca cgtgtgtgac ctgtgtgag gctgtggc gctgtggc caggccggc gtttagggct cgtgtgtgag cgtgtgtgag cgtgtgtgag cgtgtgtg ggtgtgtg gccaagctg ttggagggcac ggtgtgtgag ggtgtgtgag cgtgtgtgag ggtgtgtgag ggtgtgtg ctatgtgtg ccccgccgt ctgtgtggc gctgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg aaaaagactt aactgtgt ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag gtagggag ctgagctg aa </p> | P | Homo sapiens |
| 638 | 191039 | Trace Amine | AF380185 | <p> MNTTSSAAPP SLGVEFISLL AILLSVALA VGLPGNSFVV WSILKRMQKR SVTALMVLNL ALADLAVLT APFLHFLAQ GTWSFGLAGC RLCHYVCGVS MYASVLLITA MSLDRSLAVA RPFVSQKLRT KAMARRVLAV IWVLSFLLAT PVLAYRTVTP WKTNMSLCP RYPSEGHRAF HLIFEAVTGF LLPFLAVVAS YSDIGRRLOA RFRRSRRRTG RLVLILTF AAFWLPYHV V NLAEGRALA GQAAAGLVG KRLSLARNVL IALAFSSSV NPVLYACAGG GLLRSAGVGF VAKLLEGTGS EASSTRRGGG LGQTARSGPA ALEPGPSESL TASSPLKLINE LN atgtgctt ttggccaa tataataat atttctgt ttgaaacaa cttgtcaaat gtagtccgt cttccgtg cttgtgta </p> | A | Homo |

sapiens

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|-----|--------|--|-------------|--|---|-----------------|
| 641 | 191132 | G Protein- Coupled Receptor 88 (GPR88) | NP_071332.1 | <p>gcccgaagtc atttggacg gccacctgat tttaacctt ttttctgtg tttaagagga atccaaagt caaaacacca ggaacttggaa ggaacttggaa actggcggtt taaaataacc ggtaattta ttccacaca gttgtttt gaaaagagc ttacataatg talaacctt tccacttca tgccttata tatgaagcg ctggatgtg catgaacca aggaataaac attgaagaag gaaaacaata tgaagaagt atttggaa gaaacctgc ttgaatgtg cttctac catlgtt ttgtatata cccgggggca ggaagccct aggttggcc accagtatga gtggcatta agacctaaag cctttatc ttaaaagggt tttaataaa gctttctca aatggagtag aatcttggc agtgaaga aaaattatt tatgtcctt tttttgc ctttaagac tgaaaatgg cgttgaatgt tatatggaa atttccagt ttgaatgt atggtagag ccaagcattg aatttga aaacataaag tgaattata tttaaggtac cgtttcacat ttctatagc atgcacatt gtgtaccc tcatittga accaattat ttgcctatg aatgtatg cagctttgaa catictgat tgaatgggt gctaagaaga ataatgctt cigtttct ttacattt aaaaataatc atgtcacatg atataataa acataataa taccatgact gcalagctaa lattagcgc tatgtatgc tctatagtc tagaactat tgggcatgtg gtalactgaa gcalatccg ttagacaagg atatttact tcttcagac accagaagaa atggccttca atatttga aaagagacaca ggaacacct tggtaacct gagttcttc tgtctgacc aattatgag aaagcttoca gtgggact tatctaca gtggatcac agtcaagacg gatcaaat atggttggt cagcaagcc agctgtctc tttaggtt taaacaagcc acagttga aaagcaacct gttttatgt agttcalata tattaccag acatttaaca tcaatatt atatttga ggaggtataa taaactcagt catatagat gaacagtca aatgggaag tgttcaaaa catatttt gaggttgc atattcatct tggtttact aaatttact agaaatatt gaaatgcaaa attgtgtgaa atcaoctt caaattaaa tgggaagaaa gtaattttaa taattttaa taatcatg tcaatatt gacttact cacaataat ctggggccaa acagctcag ttaactgcat aattcaggaa caaaaccagc ttgtttgt gcaagccgtg gcaattcag ccaggacatt aggcacctt gtgtacatc tgaataata tggagttgg gacattgaa ggaatacaaa tatgtcac accaacaic agctgcat tttaatat atoccttgg tgcagacc atttctct tactaagc ttatctgt cacatttcc ttgatcaaa tattaaagt cagaaaaaaa aaaaaaaa aaaaaaaa aaaaaa</p> <p>MTNSSSTSTS STTGSLLLL CEEESWAGR RIPvSLLYSG LAIGGTLANG MVVLYVSFR KLQTTNFAI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGLL GLGLTVSLLS HCLVALNRYL LITRAPATYQ ALYQRRHTAG MLALSWALAL GLVLLPPWA PRPGAAPPRI HYPALLAAAA LLAQ TALLLH CYLGIVRRVR VSVKRVSVLN FHLHQLP GC AAAAAAFP GA QHAPGPGGAA HPAQAQPLPP ALHPRAQRR LSGLSVLLC CVFLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLL YTW RN EEFRRSVRSV LPGVGDAAA AVAATAVPV SQAQLGTRAA GQHW</p> <p>ggctgcaata actactact actggatata tcaaacctt ccaagaatcaa cagtatcag gtaaccaaca agaaatgcaa ggctgcaaca accacactc tggccttggg aacaccagtc tggcacacag agactacaaa atcacaccag tctcttccc actgtctac actgtctgt ttgttgg acttatca aatggcctgg cgaatggat ttctttcaa atccaccag aatcaaat tattatttt ctgaagaaca cagtcattc tgaattctc atgttttga cttttcatt caaaattct agtgaigcca aactgggaac aggaccacgt agaaacttgg tggtaagt tactccgc atatttatt tcaaatgt tatcagtatt tcatcttgg gactgataac tatcgatgc taccagaaga ccaagggcc atttaaaaa tcaaaccca aaaaattctt gggggctaaag atttctctg ttgtcatctg ggcattcalg ttctactt ctttcttaa catgtatctg accaagagc agccagagaga caagaatgt agaaatgt ctttcttaa atcagaagtc ggttagtct ggcatgaaat agtaaatlac atctgtcaag tcaatttgc gattaattc ttaatttga ttgatgtta tacactcatt acaaaagaac tgaaccggtc atacgtaaaga acgaagggtg taggttaagt ccccaggaaa aagggtgaacg tcaaaattt catatcatt gctgtattt ttattgttt ttttcttctc catttggcc gaatttctta cacttgcag caaacccggg atgtcttga ctgcactgt gaaatactc tgtctatgt gaaagagagc actgttgggt taacttct aatgtcatg ctggatccgt tcatattt ttcttggc aagttctca gaattctt gataagtag ctgaagtgcc ccaattctgc aacatctgc tccagagaca</p> | P | Homo sapiens |
| 642 | 191168 | P2Y12 Platelet ADP Receptor | NM_022788 | <p>gcccgaagtc atttggacg gccacctgat tttaacctt ttttctgtg tttaagagga atccaaagt caaaacacca ggaacttggaa ggaacttggaa actggcggtt taaaataacc ggtaattta ttccacaca gttgtttt gaaaagagc ttacataatg talaacctt tccacttca tgccttata tatgaagcg ctggatgtg catgaacca aggaataaac attgaagaag gaaaacaata tgaagaagt atttggaa gaaacctgc ttgaatgtg cttctac catlgtt ttgtatata cccgggggca ggaagccct aggttggcc accagtatga gtggcatta agacctaaag cctttatc ttaaaagggt tttaataaa gctttctca aatggagtag aatcttggc agtgaaga aaaattatt tatgtcctt tttttgc ctttaagac tgaaaatgg cgttgaatgt tatatggaa atttccagt ttgaatgt atggtagag ccaagcattg aatttga aaacataaag tgaattata tttaaggtac cgtttcacat ttctatagc atgcacatt gtgtaccc tcatittga accaattat ttgcctatg aatgtatg cagctttgaa catictgat tgaatgggt gctaagaaga ataatgctt cigtttct ttacattt aaaaataatc atgtcacatg atataataa acataataa taccatgact gcalagctaa lattagcgc tatgtatgc tctatagtc tagaactat tgggcatgtg gtalactgaa gcalatccg ttagacaagg atatttact tcttcagac accagaagaa atggccttca atatttga aaagagacaca ggaacacct tggtaacct gagttcttc tgtctgacc aattatgag aaagcttoca gtgggact tatctaca gtggatcac agtcaagacg gatcaaat atggttggt cagcaagcc agctgtctc tttaggtt taaacaagcc acagttga aaagcaacct gttttatgt agttcalata tattaccag acatttaaca tcaatatt atatttga ggaggtataa taaactcagt catatagat gaacagtca aatgggaag tgttcaaaa catatttt gaggttgc atattcatct tggtttact aaatttact agaaatatt gaaatgcaaa attgtgtgaa atcaoctt caaattaaa tgggaagaaa gtaattttaa taattttaa taatcatg tcaatatt gacttact cacaataat ctggggccaa acagctcag ttaactgcat aattcaggaa caaaaccagc ttgtttgt gcaagccgtg gcaattcag ccaggacatt aggcacctt gtgtacatc tgaataata tggagttgg gacattgaa ggaatacaaa tatgtcac accaacaic agctgcat tttaatat atoccttgg tgcagacc atttctct tactaagc ttatctgt cacatttcc ttgatcaaa tattaaagt cagaaaaaaa aaaaaaaa aaaaaaaa aaaaaa</p> <p>MTNSSSTSTS STTGSLLLL CEEESWAGR RIPvSLLYSG LAIGGTLANG MVVLYVSFR KLQTTNFAI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGLL GLGLTVSLLS HCLVALNRYL LITRAPATYQ ALYQRRHTAG MLALSWALAL GLVLLPPWA PRPGAAPPRI HYPALLAAAA LLAQ TALLLH CYLGIVRRVR VSVKRVSVLN FHLHQLP GC AAAAAAFP GA QHAPGPGGAA HPAQAQPLPP ALHPRAQRR LSGLSVLLC CVFLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLL YTW RN EEFRRSVRSV LPGVGDAAA AVAATAVPV SQAQLGTRAA GQHW</p> <p>ggctgcaata actactact actggatata tcaaacctt ccaagaatcaa cagtatcag gtaaccaaca agaaatgcaa ggctgcaaca accacactc tggccttggg aacaccagtc tggcacacag agactacaaa atcacaccag tctcttccc actgtctac actgtctgt ttgttgg acttatca aatggcctgg cgaatggat ttctttcaa atccaccag aatcaaat tattatttt ctgaagaaca cagtcattc tgaattctc atgttttga cttttcatt caaaattct agtgaigcca aactgggaac aggaccacgt agaaacttgg tggtaagt tactccgc atatttatt tcaaatgt tatcagtatt tcatcttgg gactgataac tatcgatgc taccagaaga ccaagggcc atttaaaaa tcaaaccca aaaaattctt gggggctaaag atttctctg ttgtcatctg ggcattcalg ttctactt ctttcttaa catgtatctg accaagagc agccagagaga caagaatgt agaaatgt ctttcttaa atcagaagtc ggttagtct ggcatgaaat agtaaatlac atctgtcaag tcaatttgc gattaattc ttaatttga ttgatgtta tacactcatt acaaaagaac tgaaccggtc atacgtaaaga acgaagggtg taggttaagt ccccaggaaa aagggtgaacg tcaaaattt catatcatt gctgtattt ttattgttt ttttcttctc catttggcc gaatttctta cacttgcag caaacccggg atgtcttga ctgcactgt gaaatactc tgtctatgt gaaagagagc actgttgggt taacttct aatgtcatg ctggatccgt tcatattt ttcttggc aagttctca gaattctt gataagtag ctgaagtgcc ccaattctgc aacatctgc tccagagaca</p> | A | Homo sapiens |

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|-----|--------|---|-------------|--|---|-----------------|
| 643 | 191168 | P2Y12 Platelet ADP Receptor | NP_073625.1 | <p>ataggaaaaa agaacaggat ggtgggaacc caaatgaaga gactccaatg taaacaatg aactaaggaa atatticaat ctcttgggt tcaagaactg taaagcaaa gcgctaagta aaaaattaaa ctgacgaaga agcaactaag ttaataaaa tgaactaaa gaaacagaag atiaaaaaag caatttcat ttaactttcc agtatgaana gctatcttaa aatataaaa actaatctaa actgtagctg tattagcagc aaaaacaacg ac</p> <p>MQAVDNL TSA PGNTSLCTRD YKIQVLFPL LYTVLFFVGL ITNGLAMRIF FQIRSKSNFI IFLKNTVISD LLMILTFPEK ILSDAKLGTG PLRTFVCQVT SVIFYFTMYI SISFLGLITI DRYQKTRPF KTSNPKNLLG AKLSVVIWA FMFLLSLPNM ILTNRQPRDK NVKKCSFLKS EFGLVWHEIV NYICQVIFWI NFLIVIVCYT LITKELYRSY VRTRGVGKVP RKKVNVK VFI IIAVFFICFV PFHFARIPYT LSQTRDVFDC TAENTLFYVK ESTLWLTSLN ACLDPFIYFF LCKSFRNSLI SMLKCPNSAT LSQDNRRKKE QDGGDPNEET PM</p> | P | Homo sapiens |
| 644 | 191193 | Trace Amine Receptor 3 (TA3) | AF380189 | <p>atggggaata attctccca agctagggt gggagctgt gtiacaaga cgtgaacgaa tctcgactta aaactctta ctgcagggt octegactca tctctacgc cgtcttgggt ttggggctg tctggcagc gtttggaaac ttactggta tgaatgctat cttcaactc aaacaactgc acacactac aaactttctg attggctgc tggccctggc tgaacttgc ggggagica cgtgaigcc cttcagcaca gggagctg tggagagctg ttgtactt gggagacagt actgaatg ccalacagt ttgacacat cctctgtt tgcctttta ttacttatt gctgaactc tgtgataga tacattgctg ttactgac tctgactat ccaaccaagt ttactgctg agttcaggg atatgcaatg tcttctgt gttctttt gtcacata gcttttgaat ctitiacagc gggaccaagc aagaaggaat tgaaggaatia gtagtctc taactgtgt aggaagctgc cagctccac tgaatcaaaa ctgggctcta ctgtttt tctattct tataccaat gtcgcaatgg ttttataa cagtaagata ttttgggg ccaagcaatca ggctagggaag atagaaga cagccagoca agctcagctc tctcagaga gtiacaaga aagaataga aaaaagagaga gaaaggctgc caaaacttg ggaattgcta tggcagcaat tctgtctt tggtaacct acctgttga tgaagatg gtagttata tgaatttt aactctct tatgtttag agattttag ttgggtgt tattataat cagtaaga cccctgatt tatcttct ttaccaatg gtttgggaag gcaataaagc ttattgaag cggcaaggc ttgaagctg attgcaac aactaatg tttctgaag aagtagagac agatua MVNFSQAEA VELCYKNVNE SCKTPSPG PRSILYAVLG FGA VLAAGFN LLVMIALHF KQLHPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PTKFTVS VSG ICIVLSWFFS VTYSFSIFT GANEEGIEL VVALTCVGGC QAPLNQNWVL LCFLFFIPN VAMVTYSKI FLVAKHQARK IESTASQAQS SSESYKVERVA KRERKAAKTL GIAMAAFLVS WLPYLVDVI DAYMNFITP YVYEILVWCV YNNSAMNPLI YAFFYQWFGK AIKLIVSGKV LRIDSSTTNL FSEEVETD</p> | A | Homo sapiens |
| 645 | 191193 | Trace Amine Receptor 3 (TA3) | AAK71240.1 | <p>atgaatgac cactagacta ttagaat gttcttatt tcccagta tgcagctgt ttggaaat gcaactgatg aaacatccca ctcaagatgc actactccc tttattat ggcattatct tctctggg attccagcgc aatcagatg tgaataccac ttactttc aaaatgaagc ctgggaagag cagcaccalc attatciga acctggctg cagcagatg ctgactcga ccagccctcc cttctgatt cactactag ccaaggcga aaactggaic ttggagatt tcatgtaa gttatccg ttatccgc ttacgtcc atticaact gtatagcagc atccttcc tcaatgtt cagcaatc cgtactg tgaatca ccaaatgagc tgcatttcca ttcaaaaac tcgatgta gtttagtct gttctgtgt gttgatt tcatgtag ctgtatcc gtagcttc ttgatcac caaccaacag gaaccaaga tgcctctgc tgcactcac cagtcggat gaactcaata ctataatg gtacaactg attttagc caactatt ctgcctccc ttgtgatag tgaacttg ctatccacg attatoca ctctgoca tggactgaa actgacagt gcttaagca gaaagcacga aggtcaacca tctgtact cctgtatt tacgtatt tttaacct ccatatctg aggtgactc gtagaatic tcgctgtct tcaatcagt gttcatiga gaatcagatc calgaagct acatgttc tagaccata gctgctctga acaactgg</p> | P | Homo sapiens |
| 646 | 191196 | G Protein- Coupled Receptor GPR80 | AF411109 | <p>atgaatgac cactagacta ttagaat gttcttatt tcccagta tgcagctgt ttggaaat gcaactgatg aaacatccca ctcaagatgc actactccc tttattat ggcattatct tctctggg attccagcgc aatcagatg tgaataccac ttactttc aaaatgaagc ctgggaagag cagcaccalc attatciga acctggctg cagcagatg ctgactcga ccagccctcc cttctgatt cactactag ccaaggcga aaactggaic ttggagatt tcatgtaa gttatccg ttatccgc ttacgtcc atticaact gtatagcagc atccttcc tcaatgtt cagcaatc cgtactg tgaatca ccaaatgagc tgcatttcca ttcaaaaac tcgatgta gtttagtct gttctgtgt gttgatt tcatgtag ctgtatcc gtagcttc ttgatcac caaccaacag gaaccaaga tgcctctgc tgcactcac cagtcggat gaactcaata ctataatg gtacaactg attttagc caactatt ctgcctccc ttgtgatag tgaacttg ctatccacg attatoca ctctgoca tggactgaa actgacagt gcttaagca gaaagcacga aggtcaacca tctgtact cctgtatt tacgtatt tttaacct ccatatctg aggtgactc gtagaatic tcgctgtct tcaatcagt gttcatiga gaatcagatc calgaagct acatgttc tagaccata gctgctctga acaactgg</p> | A | Homo sapiens |

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|-----|--------|-------------------------------------|------------|--|--|---|--------------|
| 647 | 191196 | G Protein-Coupled Receptor GPR80 | CAC51133.1 | | <p>taacctgta ctatattgg tggcagcga caactttcag caggcgtct gctcaacagt gagatgcaaa gtaagcggga accttgagca agcaagaata attagtact caacaacoc ttag MNEPLDYLAN ASDFPDYAA A FGNCTDENP LKMHYLPVY GIEFLVGFP NAVISTYIF KMRPWKSSIT IMLNLACTDL LYLTSPLFI HYYASGENWI FGDFMCKFIR FSEHNL YSS ILFLTCSF RYCVIHPMS CFSHKTRCA VVACAVVWII SLVAVPMITF LITSTNRTRN SACLDLTSSD ELNLIKWYNL ILTATTFCLP LVIVTLCYTT IHTLTHGLQ TDSCLKQKAR RLTLILLAF YVCFLPHIL VRIRSRLL SISCSINQI HEAYIVSGPL AALNTFGNLL LYVVVSDNFQ QAVCSVTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttaataaag actaatc tcaagctc tgaattcct tctgtaaaa caggggcggg aattaccaca taacaggctg gtcatgaaa tcatgtaaca tgcagcagg gctcagct tgttttgt tccaggggga ccagtgagg tttctgagc alggatccaa ccaccggc ctgggggaaca gaaatgaca cagtgatgg aatgacca gcoctctc tgccttgagg caaggagacc ctgatccgg tctctgat cctttcatt goccctggc ggcctgtagg aaacgggtt gtcctggc tctgggctt ccgcatggc aggaaagcct tctctgta cgtctcagc ctggccgggg ccgactct cttctcgc tccagatta taaatgctt ggtgtacc agttaactct tctgtccat cttccatct tctcaccac tctgtagacc tctgtacc tgcaggctt ggcagctg agccaccgca gcaaccggc ctgctgtcc gctctggc ccatctggc tgcctggc cggccacagc acctgtcagc ggctgtgtgt gctctgtctt gggccctgtc cctactgtc agcatctgg aagggaagt cgtggctc taittagtg atggtagc tgggtgtgt cagacattg attcatcac tgcagcgtgg cgtatttt tattcattgt tctctgggg tccagctgg cccgtcgtt caggatcctc tctgtctoca ggggtctgcc actgacagg cgtacatga ccatctgt caccgtctg ggttctcc tctggggctt gcocttgcc attcagtggt tcttaatt atggatctgg aaggatctg atgtatt tttcattt catccagtt cagttgtct gctatctt aacagcagc ccaacccat catttact tctgggctt ctttaggaa gcatggcggc ctgcagcagg cgatctcaa gctggctctc cagaggctc tgcaggatct tgcagggtt gcatcagtg aaggatgtt cgtcagggc acccggaga tgcgagaag cagctgtgt tagagatga cagctctac ttcacaga tatarggc tttagagg aacitggc cgtctgtct gatttctga acttctga tctgtatg tctgtatg aagagatct tggaggatt aagttagaca MDPTTPAWGT ESTVNGNDQ ALLLCGKET LIPVFLFI ALVGLVGNF VLWLLGFRMR RNAFSVYVLS LAGADFLFC FQINCLVYL SNFFCSIN FPSFTTVMT CAYLAGSML STVSTERCLS VLWPIWYRCR RPRHLSA VVC VLLWALSLL SILEGKFCGF LFSGDGSGWC QTDFITAAW LIFLFMVLCG SSLALLVRIL CGSRGLPLTR LYLITLLTVL VLLCGLPFG IQWFLILWIW KDSDVLFCHI HPVSVVLSL NSSANPIYF FVGSFRKQWR LQQPILKAL QRALQDIAEV DHSEGCFRQG TPMSRSSLV tcataact gacttctt ttcaggca agtttagat acacttgg catttccct gcaatgtgt gcaatgtt ggcctgaag alcitgtt tctgcagg tgcagctt gccaatagg ctgggattgg tcatgtgac atggcgtc atggagtcca gtagagcagg actcaggga algctgtca cactatgga agataact tagatcact ttagaaggc agacttgg ttaactct gcttacaat aatacaatg catttgagg aatgtgca atcagggtt ccaatgttag atataat gacataatc tccacagct gcatatatt gccaatgt gtagataga tagggatga tgtalcca gctatgagt aatgtagcat gccaatgt atgtattgg cttcattga atctatatt tgccttga aagcaatat gaaagcaatg aagggcaggga tggcaatgt gcccagcatg gtgccaatg caagtatga tccctcct cactccagg tcatgactt gggcaaggag acattcaact ctacagtagg tctgtcaag attagccaat gtagccaat ggaacctgg atggcgtc agttagatg aataaggatc ggtctataga ggcactcag aaatttctt aatttggat caaagctga gtagcaga atttcagag acttcgcaa aatgcaggag algcaaggag taaagctcac tcaaacatt gctgtcgtgg ttatcatt gaaagtgtt ggtcttcca tgaanaagct cgtgtggca</p> | P | Homo sapiens |
| 648 | 191218 | MrgX2 G Protein-Coupled Receptor | AY042214 | | | A | Homo sapiens |
| 649 | 191218 | MrgX2 G Protein-Coupled Receptor | AAK91805.1 | | | P | Homo sapiens |
| 650 | 191222 | G Protein-Coupled Receptor Ls191222 | LG94359 | | | A | Homo sapiens |

| | | | | | | |
|-----|--------|--|----------------------|---|---|-----------------|
| 651 | 191222 | G Protein- Coupled Receptor Ls191222 | ENSP000001199 719 | aaattgaggga aatgacagag aaggatcaca tagcagactic ttaatccccc ggaatgttc acaacagggtg tggtaggtt tcttgaat attatgcca caaccagaa aaatatgatt ccagtagagg agagaatcag gaggtagatg gccaaggagt cattocagtt gtagatattc acttctttt caaagacat agtgcctta acagggggcc agtgaattt gttgtgcat aaaaggcagt gaggcataic t | P | Homo sapiens |
| | | | | QTLAMHSIE MINNSTLLPG VKLGYEYDT CTEVTVAMAA TLRFLSKFNC SRETVEFKCD YSSYMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGYES AEILSDKIRF PSFLRTVPSD FHQIKAMAH L IQKSGWNWIG IITDDDDYGR LALNTFIQA EANNVCIAFK EVLPAFLSDN TIEVRINRL KKILEAQVN VIVVFLRQFH VFDLFNKALIE MNINKMWIAS DNWSTATKIT TPNVKKIGK VVGFAFRGN ISSFHSFLQN LHLPSDSHK LLHEYAMHLS ACAYVKDIDL RLHISQLAV FALGYAIRDL CQARDQNP N AFQPWELLGV LKNVTFIDGW NSFHDAGD LNTGYDVVLW KEINGHMTVT KMAEYDLQND VFIPDQETK NEFRNLKQIQ SKSKECSPG QMKKTRRSQH ICCYECQNC P ENHYTNQTD M PHCLLCNNKT HWAPVRSTMC FEKEVEYNW NDSLAILLI LSLGHI FVL VVGIFTRNL NTPVVKSSGG LRVCYVILLC HFLNFASFS FIGEPQDFTC KTRQTMFGVS FTLCSILT KSKILLAFS FDPKLQKFLK CLYRPILJIF TCTGIQVVIC TLWLFAAPT VEVNVS LPRV ILECEGSI LAFGTM LGYI AILAFICFIF AFKGYENYN EAKFITFGML IYFIAWITFI PIYATTFGKY VPAVEIIVIL ISNYGILYCT FIPKCYVVIC KQEINTKSAF LKMYSYSSH SVSSI | | |
| 652 | 193511 | EGF-Like Module- Containing Mucin-Like Receptor EMR3 | NM_032571 | tttctgagc taggaagaagt ggttgagc cggacacaga gaggcttcc agggctggct gggctgggag accogtacca cagaatgca gggaccattg cttctccag gctctgct tctgtcag cctttggag cgtgactca gaaacacaa acttctgtg ctaagtgccc ccaaatgct tctgtgtgca ataacactca ctgcacctgc aacatggat atactctgg atctggggcag aacttattca cattccctt gggagacatg aagacatta algaatgac accacctat agtgaattt gttgatttaa cgtctgtgtg tacaatgtcg aagggaagttt ctactgtca tggctccag gatatagact gcatctggg aatgaacaa tcaatgaatc caatgaagac acctgcagg acaccacct ctcaaaagca accgaggagca ggaagaagct gcaaaagatt gggacacaaat ttgagtcact tctcccaat cagactttat ggaagaacaga agggagagca gaaatctat ccacagctac cactattct cgggagtggtg aatcgaaga tctagaact gcttgaag atocagaaca aaaaagctctg aaaaaccaa acgatatgt agctattgaa actcaagcga ttacagaca tggctctgaa gaaagaaaga callcaacti gaacgtccaa atgaactcaa tggacatccg ttgcagtgac atcatocagg gtagacaca aggtccagtt gocatggct ttactcata ttcttctt ggaacacatca taaatgcaac ttttttgaa gtagatggata agaaagatca agtgaatctg aacttcagg ttgtagtg tctattgga cccaaagga acgtgtctct ctccaagtct gtagagctga ctccagca cgttagaagatg accccagta ccaaaaggt ctctgtgtc tacttggaaga gcaagaggca gggcagccag tggctccag atggctgtgt cctgatacac gtagaacaaga gtcacacat gttgaatgg agtacacctg ccagcttgc tggctggatg gcccctgacca gcaaggagga ggaatccgtg ctgactgtca tcaactagt ggggctgagc gctctctgc tggctctct cctggcggcc ctcaatttc tctgtgttaa agoccatocag aacacagca ctcactgca tctgagctc tggctctgccc tctctgtgg ccaactctc tctctgtgg gtagtgatgg aactgaaccc aagggtgctgt gctccatcat cggcgggtgt tggactatc tctactggc cggcttacc tggagtgctg tggaggggtg gcaactctc ctactgcaac ggaacctgac agtgggcaac tactcaagca tcaatagact catgaatgg atcagtcc cagtgggcta tgggttccc gctgtgactg tggccatttc tgcagctcc tggctccacc ttatggzac tgcgtgacga tgcgtgctcc accgtggacca gggattatg tggagtttcc tggccagtt cgtggccatt tctctgca attagttt gttattctg gcttttggaa ttgtgaaag aaaacttcc tccctaata gtagaagtg acatocag aacacagga tgcgtgctt caaagcaaca gctcagctct tcaatcctggg ctgcacatgg tgcgtggggt tgcataaggt gggctcagct gcccaggtca tggcctact ctccacatc | A | Homo sapiens |

Homo
sapiens

P

atcaacagcc tcaaggctt cttcatctt ttggcttact ttggcttact gctctctcag ccagcaggc cagaacaat atcaaaagtg
gtttagagag atcgtaaat caaaatctga gctctgagaca tacacactt ccagcaagat gggtctctgac tcaaaacca
gtgaggagga tgttttcca ggcaagatga agagaataa taaactatg aatatacag tcaatatac aatatacag catgcatc
ttggcattt tgaagaatga agctaaagga aaggaatc attaaacala tcatcttgg agaggagatg atcaacctt acttcccaag
ctgttttgc tcaacaatag gcttcaaca aatgtgtgt aatgtcatt tcttcaaa aaaaaa
MQGPLLLPGL CFLSLFGAV TQKTKTSCAK CPNASCNVN THCTCNHGYT
SGSGQKLFTH PLETCNDINE CTPPYSVYCG FNAVYNVEG SFYCQCVPGY
RLHSGNEQFS NSNENTCQDT TSSKTTEGRK ELQKIVDKFE SLLTNQTLWR
TEGRQEISST ATTILRDVES KVLEALADP EQKVLKIQND SVAIETQAIT DNCSEERKTF
NLNVQMNSMD IRCSIIQGD TQGPSAIAFI SYSSLGNIN ATFFEEMDKK
DOVYLSQVV SAAIGPKRV SLKSIVTLTF QHVKMTPTK KVCVYWKST
GQGSQWRDGG CFLHVNKSH TMCNCSHLSS FAVLMALTSQ EEDPVLTVIT
YVGLSVSLC LLLAALTFLL CKAIONTSTS LHLQLSLCLF LAHLLFLVGI
DRTEPKVLCs IIAGALHYLY LAAFTWMLLE GVHLFTARN LTVNYSSIN
RLMKWIMFPV GYGVPATVA ISAAWPHLY GTADRCWLHL DQGFMSWFLG
PVCATFSANL VLFILVFIL KRKLSLNS VSTIQNTML AFKATAQLFI
LGCTWCLGLL QVGPAAQVMA YLFTINSIQ GFFILVYCL LSQQVQKQYQ
KWFEIVKSK SESETYTLSS KMGDPKPSG GDVFPQVVKR KY
KHAYICLAAI WAYASFWTM PLVGLDYVP EPFGTSTLD WWLAQASVGG
QVFLNLFF CLLLPTAVV FSYVKIAKV KSSSKEVAHF DSRHSHVL ENKLTKVAML
ICAGFLIAWIPYAVSVWSA FGRPDSIPQ LSVVPTLLAK SAAMYNPIIY
QVIDYKFACC QTGGLKATKK KSLGFRLLHT VTVRKSSAV LEIHEEV
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ggctccggag ggagaggcaa agcccgccga atagtcgag ggcccgccag ggccgggggg ccaggggagcc gattggaac
ggcggtcagc cat'ggggcag ccggcggaag agggcgagag agggcgagag gg'ggcgag gg'ggcgag ccagggtc
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acagctcgcc cctccctca gacttttga ttggcgacca cgggtccaa cgggtgtct cccagcgga cgt'ggggga
ggctcccgca aagggagggg caccggcg ccctgggggg aattatggg aacaggggag aaggggagag gc'ggagagag
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caggcaccag caccggcgagg acagctctt caccgggtt caccgggtt caccgggtt caccgggtt caccgggtt
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ccggtccgaa gcaagggaag taaactggg gaacgggga cgttcttgc ggcccgcaaa ccggccaccc cagtttccg
agtaacata ccagacgctg ggccgggag atggaggag agggcagggg gg'ggcgag tgggtgctca ggacccgggac
ggccggcgagg ccggcgccct agtctactg ctggggggggg lcaaggagag ccggcgcgct gg'ggcgagcc

NP_115960.1

EGF-Like
Module-
Containing
Mucin-Like
Receptor EMR3

193511

653

CAC21687.1

G Protein-
Coupled Receptor
d1402H5.1

193516

654

NM_001407

Cadherin EGF
LAG Seven-Pass
G-Type Receptor
3 (CELSR3)

193524

655

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| 656 | 193524 | Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | | <p>gcaaaaggag cagaacaag ggaaticaa accagaatg taggigccac tgcctctat gttiacagga tctccgtgg ccciaggcac ctggcgctga ggaatgact ccgtccact cctcttlat tocttaaaa agggaaaaat gactgtacg acctgtca caaaactit actttgtc tttgtctg tgcagaac tgaagactt aaaaattgt tactgtttac aagtcagat tcaaaaatg tttttactt gtttaactt caaaaacttg agttttac ttgtttac gtagataat tttttcct tttttcaag tgaaggtag ggaagtgagg agaggactt ggaaggacca cctgtgagga cctgacctg gccatctga ggggtttct aacccagg tctccagg cgaaggtcag ccttgatcc cgtttacag cagatccaga agactgtgag agtagggctc cttaaccac gggggagagt ggcctgtcag ggcctggggg tggctgtgc agacacctc tccaccacca cccatgcat actctggga agcagcttc tggagatta gaaatctac ttccctgact ggaagtaaat cccaccagcc aggaaccaaa ctctcttacc cgagaaggac ccagctctt gaaggctga ggggcctgt ggggggggga ggggtgtt actatgtct agggttgta gatgccctc tctggggct cctctctca gccagcggc cctttctt gtcgtgtaa attgtccg gaagccggc tctgtttg gaataaact ctatagaaa caaaa</p> <p>MMARRPPWRG LGERSTPILL LLLSLFPLS QEELGGGGHQ GWDPLAATT GPRAHIGGGA LALCPSSGV REDGGPGLGV REPfVGLRG RRQSARNSRG PPEQNEELG IEHGVPGLGS RERETGQPG SVLYWRPEVS SCGRTGPLQR GSLSPGALSS GVPGSGNSSP LPDSFLIRHH GPKPVSSQRN AGTGRKRVG TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR TARTAPASGS APRESRTAPE PAPKRMRSRG LFRCRFLPQR PGP RPPLPA RPEARVTSANRFRRAAN RHPQPQYNY QTLVPENEA GTAVLRVVAQ DPDAGEAGRL VYSLAALMNS RSELEFSIDP QSGLRTAAA LDRESMERHY LRVTAQDHGS PRLSATTMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY PILQLRATDG DAPPNANLRY RFVGPPAARA AAAAAFEIDP RSGLISTSGR VDREHMESEY LVVEASDQEQ EPGRSATVR VHTVLDEND NAOQSEKRY VAQVREDVRP HTVVLRVAT DRDKDANGLV HYNISGNSR GHFAIDSLTG EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDINDHIP FVSTPFQVSV LENAPLGHSV IHQAVDADH GENARLEYSL TGVAPDTPFV INSATGWVS SGPLDRESVE HYFFGVEARD HGSPPLSASA SVTVTVLDVN DNRPEFTMKE YHLRLNEDAA VGTSVSVTA VDRDANSAS YQITGGNTRN RFAISTQGGV GLVTLALPLD YKQERYFKLV LTASDRALHD HCYVHINITD ANTHRPVFQS AHYSVSVNED RPMGSTTVI SASDDDVGEN ARUTYLLLEDN LPQFRIDADS GAITLQAPLD YEDQVTTYTLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPQ FVASHYTGLV SEDAPPFTSV LQISATDRDA HANGRVQYTF QNGEDGDGDF TIEFTSGIVR TVRRLDREAV SVYELTAYAV DRGVPLRTP VSIQVMVQDV NDNAPVPAE EFEVRVKENS IVGSVVAQIT AVDPDEGPNH HIMYQIVVEGN IPELFQMDIF SGELTALIDL DYEARQEYVI VQATSAPLV SRATVHVRLV DQNDNSPVLN NFQILFNYYV SNRSDTFPSG IGRIPAYDP DVSDHLFYSF ERNELQLLV VNQTSSELRL SRKLDNNRPL VASMLVTVTD GLHSVTAQC LRVVIITEEL LANSLTVRLE NMWQERFLSP LLGRFLEGVA AVLATPAEDV FIFNIQNDTD VGGTVLNVSF SALAPRGAGA GAAGPWFSSE ELQEQLYVRR AALAARSLD VLPFDDNVCL REPCENYMKC VSVLRFDSSA PFLASATLF RPIQPIAGLR CRCPPGFTGD FCETELDLCY SNPCRNNGGAC ARREGGYTCV</p> | P | Homo sapiens |
|-----|--------|---|-------------|--|--|---|--------------|

DTEAGRCV PGVCRNGGTC TDAPNGGRC QCPAGGAFEG
SSFVMFRG LRQRFHLTSLSFATVQSG LLFYNGRLNE
JOVRLTYST GESNTVVSPT VPGGLSDGQW HTVHLRYNK
PSKDKVAVL SVDDCDVAVALQFGAIGNY SCAAAGVQTS
LGGVNLPEFNPVSHKDF IGCMRDLHID GRRVDMAAFV
KLHFCDSGP CKNSGFCSEWGSFCDPCV GFGKDCQLT
TLSWNFGSD MAVSPWYLGLAFRTRATQG VLMQVQAGPH
SVTVTRGS GRASHLLLDQ VTVSDGRWHD LRLELQEEPG
LDFSFLQDT MAVGSELOGL KVKQLHVGGGL PPGSAEEAPQ
GSTPSGSPA LLPPSHRVNA EPGCVVTNAC ASGPCPHAD
QPGYYGPG CVDACLLNPC QNQGSCHLP GAPHYTDCD
RMDQQCPRG WWSGPTGPG NCDVHKGFDPCNKNNGQCH
SCLPCDCY PVGSTSRSCA PHSGQCPCRP GALGRQCNSC
RVLYDACP KSLRSGVWVP QTKFGLVATV PCPRGALGAA
EPDLFNCTSPAFRELSLL DGLELNKTAL DTMEAKKLAQ
YFSQDVRVT ARLLAHLAF ESHQOGFGLT ATQDAHFEN
TGDLWAAL QORAPGGSPG SAGLVRHLEE YAATLARNME
NIMLSIDR MEHPSRPGA RRYPRYHNL FRGQDAWDPH
SPSEVLPT SSSIENSTTS SVVPPAPPE PEPGISIIL LVYRTLGLL
RLPQNPVMN SPVSVAVFH GRNFLRGILE SPISLEFRLL
WDPPGLAE QHGVVWTARDCELVHRNGSHA RCRCRTGTF
LEGDELLA VFTHVVAVS VAALVLTAAI LLSLSLKSNS
GVAELLFL LGHRTNQL VCTAVAILLH YFFLSTFAWL
VEPRNVDRG AMRFYHALGW GVPVLLGLA VGLDPEGYGN
IWSFAGPV LVVVMNGTM FLAARTSCS TGQREAKKTS
VSASWLF GLLAVNHSIL AFHYLHAGLC GLQGLAVLL
WMPACLGRK APEEARPAP GLGPGAYNNT ALFEESGLIR
ARSRTQ DQDSQGRSY LRDNLVRHG SAADHTDHS
AMFHRDAGA DSDSDLSL EERSLSIPS SESEDNGRTR
QSERLLTHP KDVDGNDLLS YWPALGECEA APCALQTWGS
LANNQDPD ALTSGDETSL GRAQRQKGI LKNRLQYPLV
RAATLGHRAVPAASYGRI YAGGGTGLS QPASRYSSRE
ERLEEAPAVLRPLSRPG SQECMDAAG RLEPKDRGST
JAMAGRFGS RDLALDLAGPR EWLSTLPPPR RTRDLDPQP
DPLPSRP LDSLSRSSNS REQLDQVPSR HPSREALGPL POLLRAREDS
LDILSSIL ASFNSSALSS VQSSSTPLGP HTTATPSATA SVLGFSTPRS
EVPRSEG HS
cca gctccaac agcagttggc cctaagta gaatggagc aacactgg ccacccggc
t cctaataca gcacactcc cctggggcg ccagttcat tgggctcat tctgctctg
tgg tctgttcat cgtgtctcaag aacgggcaca tgcatactgt caccaacatg tcatctca

A Homo sapiens

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|-----|--------|--|-------------|--|--|---|---|-----------------|
| 658 | 193914 | Neuropeptide FF 1 Receptor | NP_071429.1 | | | accctggctgt cagtgaaacttg ctggggggga tctcttgcac gccaccacc ctgtgtggaca accctacac tgggtggccc ttcgacaatg ocacatgcaa gtagagcggc tgggtgcagg gcaatgtctgt gtcggcttcc gttttcacac tgggtggccat tgctgtgzaa aggttccgct gcatcgtgca cctttccgc gtagagctga ccttgccgzaa ggcgctcgtc accatgcgcg tcatctggcg cctggcgctg ctcacatgt gttccctggc cgtcacgctg accgtaccc gtagagggagca ccacttcatg gtgagcggcc gcaacggctc ctacccttc tactcttgt gggagggctg gcccgagagag ggcacgtgcga gggctctaac cacgtgtctc ttctgcaca tctaacggcg gccgcttgctg ctcacgtggc tcatgtacg ccgtacgtgc cgtcaagctct ggcaggcccc ggcccccggcc cccggggggcg agtagggctg ggaacccgga gcatcgccgc gtagagggcg cgtgtgtgac atgtgtgca tgggtggct gttttacg ctgtctggc tgcggctctg ggcgtctctg ctgtcaltg actcgggca gctcaggcg ccgtagctg accgtgtac cgtctacgc ttcccttg ccgctggct ggcccttctc aacagcagcg ccaaacccat catctaggc tactcaag agaatcccg ccggcgctc caggccgctt ccggcgccg cctctgccc cgccgctcg gtagccaca gtaggctctac tccagcgcg ccggcgggct ctgtgcacag cgggtcttcg tgggtgtg ggcaggac tccggctg cctctgct gggccctagc agtggggggcc ccaggccgg ccgcttcccg ctggggaag ggcggtgg tcacacggc ttgccaggg aaggccctg ctgtccac ctgcccctca ccatccagc ctgggataic tga MEGEPSPN SSWPLSQNGT NTEATPATNL TFSYYQHTS PVAAMFIVAY ALFLCMVG NTLVCFVLK NRHMHTVTNM FILNLA VSDL LVGFCMPTT LVNLTGWP FDNATCKMSG LVQMSVSAS VFTLVAIAVE RFRClVHPFR EKLTLRKALV TIAVIWALAL LIMCPsAVTL TVTREEHFM VDARNRSYPL YSCWEAWPEK GMRRVYTTVL FSHYLAPLA LIVMYARIA RKLQAPGPA PGGEEAADPR ASRRRARVVH MLVMVALFT LSWPLWALL LLIDYGQLSA PQLHLVTYYA FFAHWLAF NSSANPIYG YFNENFRGF QAAFRARLCP RPSGSHKEAY SERPGLLHR RVFVVVRPSD SGLPSESGPS SGAPRGRLP LRNGRVAHHG LPREGGCSH LPLTIPAWDI | P | Homo sapiens |
| 659 | 194319 | G Protein- Coupled Receptor FLJ22684 | NM_025048 | | | agatactat actttctc caaacagcat aagaagtgt tgaagcaaa gtaactgaa ggaagggtc cctcgagt tgggtgag agataaatca ccagtacag actatgcaac cgactgtctg tgtcagtc accgggaaatg aagttggag tgctgtgct cattttc ttaccttca ctgacggcca cgggtgctc ctgggggaaa algatgacat caaaacaaa aaaagaacta ttgtgataa gaaanaaat ctaggccag tgaagaata tcaagctg ctacaggga cctatagaga ttccaggag aagaagagt ttgaatait tctgaagctc tgaagctc cattatgt gtcacatgg ctaattgaa ttatcagagc aaaggctacc acagctgca acagctgaa tggagtctc cagttaact gtagagacag ctacactgg ttctccct caltgctga tccagaac tgcacttc acaggtctg agcactoca agctgtgaa gtcactca caactcagc cagaggtca attctgtga gtagaacaag atttggggca ctccaat taatgaaag ttacaatg acccttgaa ttacttct gctataact ccaatagc aaatgtaatt gaaatcaac ttaaaaagc atatgaaagc attcaaggt ttgagctgt tcaaggcac caatttcgaa tgcactct gtcgccag ttggagtga algacacat ctaggctcac tgaacctg caacctg ttttactag agacagggt taccatgt ggccacatg gttcaact cctggacctc ggtgatccg ctgctcggc ccccaaag ctgggatac aggcagagc caccacat ggctagggc ctaatait ggaaagcalt ctcaaacg tgggtcag agtagaacta caaaacata gcaatagggc agaaactga aagaaggcag gtagatcag tgaagtgga tgggaaaaag tgaagggtgg gataaagggt tgcgggtgt cgaagggtgg attttcct tcaagcaacta caggagat gatgctcat aatcggagc cagaagtggt gcttgggtg agatattctt gcacagataa calgtataa tcalgtta aaaaccagta gtcattgtt acagcaataa aagaataat tagtaataa aaaaaaaa aaaaaaaa aaaaaaaaaaa aaa | A | Homo sapiens |

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|-----|--------|---|-------------|--|---|-----------------|
| 660 | 194319 | G Protein- Coupled Receptor FLJ22684 | NP_079324.1 | MKVGVLWLIS FFFTFDGHGG FLGKNDDIKT KKELVNKKK HLGPEVEYQL LQVTVRDSK EKRDLRNFLK LKPPLLWSH GLIRIRAKA TTDCNSLNGV LQCTCEDSYT WFPSPCLDPQ NCYLHTAGAL PSCECHLNNL SQSVNFCERT KIWGTKEINE RFTNDLLNSS SAIYSKYANG IEIQLKKAYE RIQGFESVQV TQFRMSLLSP KLECNGTI | P | Homo sapiens |
| 661 | 194431 | Olfactory Receptor, Family 51, Subfamily E, Member 2 | NM_030774 | atgagtctt gcaacttcac acatgcacc ttgttgctta tiggatcc accattagag aaagccatt tctgggtgg ctccccctc ctttccatgt atgtatggc aatgttggc aactgcatcg tggcttcat cgttaaggagc gaacgcagoc tgcacgtoc gatgtacct ttctctgca tctgtcagc catgtacctg gctttacca catccaccat gcttaagatc ctgocctt tctgttga ttcccagag attagcttg aggcctgt taccagaatg ttctttatc atgcccctc agccattgaa taccacatcc tgcgtggccat ggcctttgac cgttatgtgg ccatctgcca cccactgac catgtgcag tgcctaacaa taccgttaaca gccagatg gcacgtggc tgtgtccgc ggalccctct tttttccc actgcctctg ctgatcaagc ggcgtggcct ctgcccactcc aatgtctct cgcactctta ttgtgtccac cagatgttaa tgaagtggc ctatgcagac acttgccca atgtgttata tggcttact gccattctg tggctatggc cgtggagctia atgttcatct cctgttctta ttctgata atacgaacgg ttctgcaact gctttccaag tcaagagcggg ccaagcctt tggaaacctg gttgtcacaca ttgtgtgtgt actgccttc tatgtccac ttatggcct ctatgttga caccgttgg gaaacagcct tcatccatt gtgcgtgtg tcatgggtga catctactg ctgtgcctc ctgtatcaa tccatcatc tatgtgtcca aaacaaaca gatcagaaca cgggtgctgg ctatgtcaa gatcagctgt gacaaggact tgcaggctgt gggagggcaag tga MSSCNFTHAT FVLGIPGLE KAHFWGFP LLSMVVAMFG NCIVVFIVRT ERSLHAPMYL FLCMLAIDL ALSTSTMPKI LALWFDSRE ISFEACLTM FFIHLSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQGIVAVVR GSLFFFLPL LIKRLAFCHS NVLSHSYCVH QDVMKLAYAD TLPNVVYGLT ALLVMGVDV MFISLSYFLI RTVLQPSK SERAKAFGTC VSHIGVLAFL YVPLIGLSV HRFGNSLHPI VRVVMGDIYL LLPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGKK actttttca tgtctctt ggtgtgaagga tgaaggaatt gaaagcagag tatgcacct ttataggag attcaaacg catccatcg gattagcttc aaagctcta aaatacaag acatccatct gacagatcac tgaaggagg actgtttt ctgtttaga atagtccg attaaactt ttatctcaag aagaanaaga gctagtatt ttccaccacag gagtgggtt ggtgttggc ttacacatgg ctctcgtcg tgccttgaac ctatgggtgc tgggtgctgt cgtgtgttga ctactgctg gcatctttt gggactgggc atcttggagga ttgtgatcag gatccaaaga ggaatacta ctctctac cttccatc aagcacccct acagagttct gcaaggaaatgg tggaaacctg gaaaatggca gatgtatttg tacagaagag tggaaaggac tgaatgtatc aatgtctaatt ttgtgtgaa atagtacctia tatgggttt actttggcca gaatccatgt gggcagatat ggaacatct tgcacaatg tggcaaggat actocaaatg cgggcaatcc aatggcagtc cgtgtgtgca gtcctctct atatgtgagag atagaattac aaaaatgac aataggaaat tgcagtga atctggaaac ccttgaaag caggtagagg atgtcacagc accacttaat aactttctt ctgaagtcca gatttaaca tctgtgcca ataatatc tgcgtgagac atcatagtg ctacgcagt ggtgtgacag atattcaaca ctccagaaa tgccttacc gagcgaaga aagtgtccat agtaacagtg agtaacctc tagatccag tgaagtct ttcaaaagag ttgtgtctac tgcataatgt gatgccctia caagcttat tgaagcaaatg gtagactatt cctgtctt gggtaatcaa tcaagtgtgg aacctaaat agcaatacag tcaagcaatt tctctcaga aatgtcgtg gggctctcaat atgtcgtct ctctgtgag aagaggctia acatgtct agttctagt tcaacatfa tacaataa tgtgtgatgg cttaacacag atgcacagc tgaagctcag gttctgctia atatgagaa aaattacac aagacatgct gctttgtat ttaataaat gacaagctt tcaatacaa aactttaca gctaaatcgg attttatga aaaaattac tcaagcaaaa ctgatgaaa tgaagcaagat cagagtgct ctgtgacat ggtctttagt ccaatgtaca accaaaaaa attcaactc tatctatg cctgtgctia ttggaattg tgaagtgagg actgggacac atatggctgt caaaaaaga aggcactga tggattctg cgtgacct gcaaccatac tactaattt gctgtattaa tgaattcaaa aaaggattat caatatoca | A | Homo sapiens |
| 662 | 194431 | Olfactory Receptor, Family 51, Subfamily E, Member 2 | NP_110401.1 | ERSLHAPMYL FLCMLAIDL ALSTSTMPKI LALWFDSRE ISFEACLTM FFIHLSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQGIVAVVR GSLFFFLPL LIKRLAFCHS NVLSHSYCVH QDVMKLAYAD TLPNVVYGLT ALLVMGVDV MFISLSYFLI RTVLQPSK SERAKAFGTC VSHIGVLAFL YVPLIGLSV HRFGNSLHPI VRVVMGDIYL LLPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGKK actttttca tgtctctt ggtgtgaagga tgaaggaatt gaaagcagag tatgcacct ttataggag attcaaacg catccatcg gattagcttc aaagctcta aaatacaag acatccatct gacagatcac tgaaggagg actgtttt ctgtttaga atagtccg attaaactt ttatctcaag aagaanaaga gctagtatt ttccaccacag gagtgggtt ggtgttggc ttacacatgg ctctcgtcg tgccttgaac ctatgggtgc tgggtgctgt cgtgtgttga ctactgctg gcatctttt gggactgggc atcttggagga ttgtgatcag gatccaaaga ggaatacta ctctctac cttccatc aagcacccct acagagttct gcaaggaaatgg tggaaacctg gaaaatggca gatgtatttg tacagaagag tggaaaggac tgaatgtatc aatgtctaatt ttgtgtgaa atagtacctia tatgggttt actttggcca gaatccatgt gggcagatat ggaacatct tgcacaatg tggcaaggat actocaaatg cgggcaatcc aatggcagtc cgtgtgtgca gtcctctct atatgtgagag atagaattac aaaaatgac aataggaaat tgcagtga atctggaaac ccttgaaag caggtagagg atgtcacagc accacttaat aactttctt ctgaagtcca gatttaaca tctgtgcca ataatatc tgcgtgagac atcatagtg ctacgcagt ggtgtgacag atattcaaca ctccagaaa tgccttacc gagcgaaga aagtgtccat agtaacagtg agtaacctc tagatccag tgaagtct ttcaaaagag ttgtgtctac tgcataatgt gatgccctia caagcttat tgaagcaaatg gtagactatt cctgtctt gggtaatcaa tcaagtgtgg aacctaaat agcaatacag tcaagcaatt tctctcaga aatgtcgtg gggctctcaat atgtcgtct ctctgtgag aagaggctia acatgtct agttctagt tcaacatfa tacaataa tgtgtgatgg cttaacacag atgcacagc tgaagctcag gttctgctia atatgagaa aaattacac aagacatgct gctttgtat ttaataaat gacaagctt tcaatacaa aactttaca gctaaatcgg attttatga aaaaattac tcaagcaaaa ctgatgaaa tgaagcaagat cagagtgct ctgtgacat ggtctttagt ccaatgtaca accaaaaaa attcaactc tatctatg cctgtgctia ttggaattg tgaagtgagg actgggacac atatggctgt caaaaaaga aggcactga tggattctg cgtgacct gcaaccatac tactaattt gctgtattaa tgaattcaaa aaaggattat caatatoca | P | Homo sapiens |
| 663 | 194743 | FLJ14454 | NM_032787 | actttttca tgtctctt ggtgtgaagga tgaaggaatt gaaagcagag tatgcacct ttataggag attcaaacg catccatcg gattagcttc aaagctcta aaatacaag acatccatct gacagatcac tgaaggagg actgtttt ctgtttaga atagtccg attaaactt ttatctcaag aagaanaaga gctagtatt ttccaccacag gagtgggtt ggtgttggc ttacacatgg ctctcgtcg tgccttgaac ctatgggtgc tgggtgctgt cgtgtgttga ctactgctg gcatctttt gggactgggc atcttggagga ttgtgatcag gatccaaaga ggaatacta ctctctac cttccatc aagcacccct acagagttct gcaaggaaatgg tggaaacctg gaaaatggca gatgtatttg tacagaagag tggaaaggac tgaatgtatc aatgtctaatt ttgtgtgaa atagtacctia tatgggttt actttggcca gaatccatgt gggcagatat ggaacatct tgcacaatg tggcaaggat actocaaatg cgggcaatcc aatggcagtc cgtgtgtgca gtcctctct atatgtgagag atagaattac aaaaatgac aataggaaat tgcagtga atctggaaac ccttgaaag caggtagagg atgtcacagc accacttaat aactttctt ctgaagtcca gatttaaca tctgtgcca ataatatc tgcgtgagac atcatagtg ctacgcagt ggtgtgacag atattcaaca ctccagaaa tgccttacc gagcgaaga aagtgtccat agtaacagtg agtaacctc tagatccag tgaagtct ttcaaaagag ttgtgtctac tgcataatgt gatgccctia caagcttat tgaagcaaatg gtagactatt cctgtctt gggtaatcaa tcaagtgtgg aacctaaat agcaatacag tcaagcaatt tctctcaga aatgtcgtg gggctctcaat atgtcgtct ctctgtgag aagaggctia acatgtct agttctagt tcaacatfa tacaataa tgtgtgatgg cttaacacag atgcacagc tgaagctcag gttctgctia atatgagaa aaattacac aagacatgct gctttgtat ttaataaat gacaagctt tcaatacaa aactttaca gctaaatcgg attttatga aaaaattac tcaagcaaaa ctgatgaaa tgaagcaagat cagagtgct ctgtgacat ggtctttagt ccaatgtaca accaaaaaa attcaactc tatctatg cctgtgctia ttggaattg tgaagtgagg actgggacac atatggctgt caaaaaaga aggcactga tggattctg cgtgacct gcaaccatac tactaattt gctgtattaa tgaattcaaa aaaggattat caatatoca | A | Homo sapiens |

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| 664 | 194743 | FLJ14454 | NP_116176.1 | | | <p>aatcaatga catatatacc aacgttggat ggcactgic tguactggc cgggcctca cagtataat tcaagtigc accagggaag tcaaaaaac ctcaatacc tgggtttgg tcaatctgg catacaatg ttagtttca acctctct tggtttgg attgaaact ccaataagaa ctgcagaca agtgaaggc acataataa tatgactt gacaataag acataccag gacagacc attaacatcc ogaatccat ggcactggc attgcogct tactgacta ttcttgta ggcattta cctggaaagc actcagcgt gcacagctct ataacctct aataaggacc atgaagcctc ttctcgga ttcatctt ttcatctat taatggagc gggagtcoca gctatagtag tggctaac agtgggagt atttctc agaattggaa taatcacag tgggaattag actacggca agagaatac tgcctggc caatcaga accaatgg gtataaaa gtccggtt ggtgtatc atgtacct taaccatt octcagc aatgtgta tttttatc aatcgatc aaagtcgt ggaagaataa ccgaacctg acagacaaa aaaaagttt alccatgaag aagatgta gcattatc tgttcagt gttttgaa ttactggat tctagatc ctagctag taatgaiga tagcatcagg atcgtctca gctacatc cgtcttc aactacac agggatgca aattttac cgtacacg taagaacaa agcttcag agtgaagctt ccaagtggt gattgcta tgcctatg ggaagaggaa gtatgctc tcaatgaagc ggcagaggt gctgtaag atgataat tctcaggtc attgcaacc ttacatgaac gcttaggt actggaacc tctcagga ctgaggaat cacactct gaaagigaca atgcaaggaa agcatctag acagtataac ttacctg tggctttt aatcaactg ttgagttt atctgttt ctcttatt tccagctct ctgagaagt ctctcaat gttttgct caggattaag aattagataa aacctgtt ttatttat tggcataat ggaatgga gtttttat ttccaatg attgtact gaataagggt aagaattca caacatc aagatgaca ttttctta tatgtaaa tcttgtag acacttgac aaaaatgtag aaactatac aaattctt acaagtact ataaaggaca caaaggaaa acttaact ccaagaacaa atgactcgt atgaacagc tgggggatt tgcctgatg tattaact tgaactcgt</p> <p>MASCRAWNLRLVLVAVVCGLLTGILGLGIWRIVRIQRGKSTSSSTPTE FCRNGGTWENGRICTEEWKGLRCTIANFCENSTVMGFTFARIPVGRYGP SLQTCGKDTPNAGNPMVRLCSLSYGEIE LQKVTIGNCNENLETLEKQV EDVTAPLNNI SSEQVQLTSDANKLTAENIT SATRVGQIF NTSRNASPEA KKVAIVTVSQLLDASEDAFQ RVAATANDDA LTTLEQMET YSLSLGNQSV VEPNIAQSA NFSENAVGP SNVRFVQKG ASSLVSSSTFIHTNVDGLN PDAQTELQVLNMTKNYTKTCGFVVYQNDKLFQSKFTAKSDFSQKIIS KITDENEQDQSASVDMVFSKYNQKEFQLYSYACVYWNLSAKDWDYGCQK DKGTDGFLRCRNHTTNFAVLMTEKDYQYPKSLDILSNVGCALSVTGLA LTVIFQIVTRKVRKTSVTWV L VNLCSMLI FNLLEFVGIE NSKNLQTS GDINNIDFDNNDIPRTDTINIPNMCTALA ALLHYFLVLTFTWNLSSAQ LYLLIRTMKPLPRHFILFI SLIGWGPVAVVAITVGVY SQNGNPNQWE LDYRQEKICW LAIPEPNGVI KSPLLWSFIVPTILISNV VMFTISIKV LWKNNQNLTS TKKVSSMKKI VSTLSVAVF GITWILAYLM LVNDDSRIVFSYFCLFNTTQGLQIFLY TVRTKVQFQSEASKVLM LSS IGRKSLPSVTRPRLRVKMYNFLRSLPTLH ERFRLLETSPSTEEITLSES DNAKESI</p> <p>cggccgcggcagggtgaggacacca cgtctctaaa aagagacaga cgcacccag gctcggatg gaagaagc aaagcttaa tccctggaaa egccacgaac aatgaatca ttatgcat ctgttgga cacttgcc gactttta acaaatcgt gaataaagag ttgtctatc aaactggcagg tgggtggat acagtacc tccctcat gattggatt atctgtcaa cagggtcgt tggcaatc ctatgat tcatat aagatccagg aaaaaacag tccctgacat ctatctgc aactggcgt ggtcgtgatt ggtaacata gttggaagc ctttttat tcaaatgg gcccaggggg gagaatgggt gtttgggggg cctctgca ccatcatcac atccctggat actgtaacc aatttgccgt tagtgccalc algactgaa tgaatggga caggtaactt goccctgccc</p> | Homo sapiens |
| 665 | 194745 | G Protein-Coupled Receptor SLT/MCH2 | NM_032503 | | A | | Homo sapiens |

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|-----|--------|--|-------------|---|-----------------|
| 666 | 194745 | G Protein- Coupled Receptor SLT/MCH2 | NP_115892.1 | <p>aaccatttgc actgacacgt tggagaacaa ggtacaagac catccggatc aatttgggccc ttggggcagc ttctttatc ctggcattgc ctgtctgggt ctactgaag gtaaccaat ttaagaacgg tggtagaggt tggtagaggt atttgacatc occgacgat gtactctgt alacacttta ttgacgala acaactttt ttctccctt acccttgat tgggtggtc atatttaatt ttatgctat acttggaga tgtatcaaca gaataaggat gccagatgct gcaatccagc tgaaccaaa cagaragiga tgaagtigac aaagtatggg ctgtgtctgg tggtagtctt tatctgagt ctgtccctt atcagtgtt acaactggg aactiacaga tggacaagoc cacatggccc ttctatggg gttatgct ctcatctgt ctgacatg ccagcagcagc cattaacct ttcttaca tctgtctgag tggaaattc cagaacgct tgcctcaat ocaaaaga gcgactgaga aggaatacaa caatatggga aacactiga aatcacact ttaggaaagt acatggatca ocatgagct agcatgatt gctatctta ctggtattat tagaaaggcg aggtgtaccg alatgttat gccattct ctgtgtact tggactct agcagcatgg aagaagaag taaacatgca aatacaatga gcttaatatg ctaactgtaa aaaaaaaa aaaaaaaa</p> <p>MNPFHASCWN TSAELLNKSX NKEFAYQTAS VVDTVILPSM IGIICSTGLV GNILIVFTII P RSRKTVPDI YICNLAVADL VHIVGMPFLI HQWARGGEWV FGGPLCTIIT SLDTCNQFAC SAIMTVMSVD RYFALVQFPR LTRWRTRYKT IRNLGLWAA SFLALPVWV YSKVKKFDG VESCAFDLTS PDDVLWYLY LITITFFFL PLILVCYILI LCYTWEYQQ NKDARCCNPS VPQXVMKLT KMLVLVWVF ILSAAPYHVI QLVNLQMEQP TLAFYVGYL SICLSYASS INPFLYLLS GNFOKRLPQI QRRATEKEIN NMGNLTKSHF</p> | Homo sapiens |
| 667 | 194756 | Chemokine Receptor FKSG80/GPR81 | NM_032554 | <p>ccacacac aggagccgca tcttgggtga tgaagtca cagcagcagc ctgggtgagt gtaacgctc agataagcat ctgtgccatt gggggactc ccttggctgc tctgacccg gacatgct ctgtccccc catgacaac gggctgtgct ggcgcacga gggggacacc atctccagg tgaatggccc gctgtcatt gggccttg tcttggggc actaggcaat ggggtgccc tgtgtgtt ctcttcac atgaagactt ggaagccagc cactgtttac ctittcaatt tggcgtggc tgaattctc cttatgact gccgtctt tgggacagac tattactca gacgtagaca ctgggctttt ggggacalc ccttccgagt ggggctctc acgttggoca tgaacaggcg cgggagcatc gtttctta cgttggggc tggcagacagc tatticaag tggccaccc ccaccagcg gtaacacta tctccaccg ggttggcgct ggcatgctt gcaacctg tggccttgct atccctggga cagtgtatc ttgtctggag aacatctct gcgtgcaaga gacggccgct tctgtaga gcttcatc ggaatggcc aattgtatc atgacatcat gttccagctg gagtctta tggccctgg catcatctia ttgtctct tcaagatgt ttggagocig aggcggaggc agcagctggc cagacaggtc cgaatgaaga aggcgaccgc gttcatcag gttgtggcaa tttgttcat cacatgtac ctgccagcg tctctgtag actatttc ctctggagc tggccctgag tggctggat cctctgtcc atggggccct gcacatacc ctacgttca cctacatga cagcatgctg gattccctgg tgrattatt ttaagcccc tctttcca aatctaca caagctcaaa atctgcagc tgaacocaa gcagccagga cactcaaaa cacaaggcc ggaagagatg ccaatttga accctggcg caggagtgc atcagttgg caaatgtt ccaagaccag tctgatggc aatgggac ccattgtt ggtgtgcat gaacagcgag accaacaaca ctgagagagc tgaagtggg acttagaatt aactgtgct aagggttgg gggcttga aatggcccc ccttctta ttgcaagac gcttctgca catgaactgc atctctca ttctgtcga aatgaattc acacaact acccttggg gaggttccag tt</p> <p>MYNGSCCRIE GDTISQVMP PP LLIVAFV LGA LGNGVALCCF CFHMKTWKPS TVYLFNLVA DFLLMICLPF RTDYLLRRRH WAFGDIPCRV GLFTLAMNRA GSIVFLTVA ADRYFKV VHP HHA VNTISTR VAAGIVCTLW ALVILGTIVL LLENHLCVQE TAVSCSFIM ESANGVHDM FQLEFNMPLG ILFCSFKIV WSLRRQQLA RQARMKKATR FIMVVAIVFI TCYLPVSAR LYFLWTVPSS ACDPSVHGAL HITLSFTYMN SMLDPLVYF SSFSPKPYN KLKICSLPK</p> | Homo sapiens |
| 668 | 194756 | Chemokine Receptor FKSG80/GPR81 | NP_115943.1 | | Homo sapiens |

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|-----|--------|--|--------------|--|---|--------------|
| 671 | 194858 | G Protein-Coupled Receptor LS194858 | LG94710 | QGLFIFLHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV ttagttcaag tcaagctcag cactgtcttg gctcgttgag tggtaggcaa tgcgtggggc gggagctcc cggggaggctc ttcccacag cccctgcag ccccttgagg cggctgtccct ccagggggct gtagtgcgt gtagtgcag cccatggct acgggacatg ccgctgcact agcacttctt agggagagaga gggagacaag tttccagggc cccagtgggc gggctgctc ataggccagg actgagagaga gtagtctggc cactgtggg cccagtcaca gggcagagag cccgctccag ccggcagatg ccctgtctg cctccagga aaggccgggg ccagggggga gggctcctc-g cggcacatg cccgctccag ccggcagatg tcctgcagct gggggggggc agtgccagc acggggagag agagagagag agcagcaccc acgggggggga gcaaggagcc atagacttg aggtacaggt agggggggc gaagatagcc tggggagc agtgagcacc aggggttccag tggttccacc ccaggggggc cagcttgca aagagcaggg gaccagcca ggtgagagag agggccagcc gaatgctcc aggggggctgg agtgccctca gtagtgcct gtagcctcc ccgtgcacca gcaagagaggt gggcagcagg gtagggagag agaaagtggg agccaaagag acgaggaggc aggaaccag acccggcga cctgtgtcc acagcctgg caatgtggc aatgocagac ccgtgagag cccagccagc agtagggctca ggaagagaga gccagcaggt gggcgtggca gggggggc caggggcagatg ccaggggc gtagcaggt cggggggg agtaggttg algaggttg ccagggttg ccaggccag ggaagagccc aagggccct tgggaatggg gctggggcacc tggccatg tggggggc cactgtg cgggggagag gggagctctg gggcggcagc cggcagtc QDTRHGNRC RAGCSNLTJL RKAQAQAIP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPKGAAGL SLALSLIIT ANLLALGLA GTAACAATCW LLLPPTAGW AAHSGIATL PGLWNQRRG YWSCLLVLA PNFSLSLA NLLVHGERY MAVLRPLQPP GSIRLALLT YAGPLFASL PALGWNHWTP GANCSSQAF PAPYLEVY GLLLPVAGAA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPPLPGT LLSLLSGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggcccaag gataagagtaa tcatgggct cagagcagc gctagatag tgggggggtg ttgatctaa tgtattcc atgttagcac agaaacttg tggcagtaga gtagaggtcag gcttcagagt cagcaagaac tggatttcaa actggattg aggaccoca cctttgata ggtgacttat tctgtgag tctgtat gcttctta aatgaggag taaatccac atggcagggt gggtgggaga atcagagatc atacagctgg tgaacaaac tggttctgt ttccagggt accagactgg ggtttctgag cattggatica accatccag tctggggac agaaactgaca ccaatcaac gactgtagga gactccttg tacaaagaga ccctgagctt cagggggctg acgtgcalg ttccctgt cggcctgaca ggaagcggc tgggtctg gctcctggg tggcagtc gcaagaaagc tgtctcatc tatctctca actgtgctg gggcagctt ccttctta gggggccat tatatgtc cgtttaccc tcatcaat ccggccatcc atctccaaa tctcagacc tggtagacc ttcccttat ttatggct aagcagctg agcgccatca gccaccgagc ctgctgtcc atctgtggc ccacttgga ccaactggc cggccagat accgtgcatc gggtcaggt gctgtctt gggccctg cctgtgctg agtatctgg agtgaggt cgtgactt cgtttatg gttgtgact tgtttgtt gaaagtgac attcatat aatggcgtg ctgttttt ttgtgtgt tctgtggg tccagccctg tctgtgtg caggatctc tggtagtcc ggaagatg gctgaccag ctgacgga ccaatctct cagagctg gcttctcc tctgtgctt gcccgtgg atcagtggg cctgtttc caggatcac ctggatgga aagtctatt ttgtatg calciagt ccatttct gtccgtctt aacagcag ccaaccat catctatc ttggtggc ccttaggca ggtcaaaat aggcagaaac tgaagctgt tctcagag gcttgcag acagccga ggtggagaga ggtggaggggt ggtcttcca ggaacccctg gagctgtcgg gaaagcagat ggaagcagat cgtccctg agacagagat ttgagagcaa tgcctgtcctg ccacccctga caattatg caatttctt agccttctg ctcaagaatg | A | Homo sapiens |
| 672 | 194858 | G Protein-Coupled Receptor LS194858 | ENSP00000053 | 671 | P | Homo sapiens |
| 673 | 194878 | MrgX3 G Protein-Coupled Receptor | AY042215 | 672 | A | Homo sapiens |

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|-----|--------|--|------------|--|---|-----------------|
| 674 | 194878 | MrgX3 G Protein-Coupled Receptor | AAK91806.1 | MDSTIPVLGT ELTPINGREE IPCYKQTLSE TGLTICIVSLV ALTGNAVVLW LLGCRMRRNA VSIYILNLVA ADFLFLSGHI ICSPRLINI RHPISKILSP VMTPPYFIGL SMLSALTER CLSILWPIWY HCRPRYLSS VMCVLLWALS LLRSILEWMF CDFLFSGADS VWCETSDFTI IAWLVFLCVV LCGSSLVLLV RILCGSRKMP LTRLVVTILL TVLVFLLCGL PFGIQWALFS RIHLWDKVLV CHVHLVSIFL SALNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDTPV VDEGGGWLPQ ETLELSGSRL EQ | P | Homo sapiens |
| 675 | 194903 | G Protein- Coupled Receptor GPCRB3 | LG100657 | <p>tcaggtggag ccgcagcggcc tctgtgtatg ctgaatggag gcttggaagt gctctgtgct gttgaggtct gggcggcgaga ggatcatgta gcatctaggc agaaataacc caccggaaagcc gctgctcagg ctgctcagcc cagcatcat gttggccggca ggcagggtact tggcgtcgtg gtagcgtcggcc gttgtgtgaaga aggcgatacca ggacacggaag ttgaaaggaca ggtctgaagg gacacatttg gctcgtgtgt agttctcttg caagtctta cccaggtagc tgcaggcgaaa ggacactgatg gtagggtagggc cattgtagag gaaaggccagt atgaagocaa gggtggtgtgt ctctgtgtcac tcaagatca ccaagatgggg gaaagcgtcgg tatctccatg caggcagatgg gggtccacacc accagccaaag ttggaagat aagcagctcgg ggccgtcggagc tgaatcac aaacaggcca gcaaccgtgt ttgtgaocaa ggctgtgtgt aatgtatgta cttgtgtgga aaacttgaaag atgtatgatta gtttggaatga gctgaactgt aggcaggaca ggaagatgtgt gaaaccaaagg gcaaaagaggg cctggcgtgtg caagcagcca ggccctgtgt gttcccaaa gaaagccatg aggtcgtccac taactgtgc cagggtgaagcc agcataagaa agcacaaggcc ggccctgtgt gactcaoca cagggggtgt taggtgtccag gcaaaagagc cagcagctcc aagcagcagc agcagcagca ggcgtgttagc tgcacagc accaaaggagg tgtgtcacgc caaagccaaa aaacacacag tgcgcggggaa gacagctcgtg cttcccttag gttccctac tcttccca caaggcgtgg atctgttagg gttgaaagg gtttgaaa cctaggggagg accttaacct aggcccaagt gtagcagatga ggaataggaa atagggggct gcaagatagt ggtgaagattg taacaggggca gctagatct actagggcata gttggatggg ggttagccggg agtgggggct gtagggcagc atttctcaa aatggctgtgt ttatatacag actctggaga cacacaggc ggttctgtat ggtcatgat ccaatggagg ttgtgaaa cctaggggagg accttaacct ggtagcctc gcaacatcc agaaaggatg gtagcagcgt gctcagagc gtagggcagc gtagggcagc gtagggcagc ctcttgocag cattoacag aacacttc ctgagctgt gctcgtgtgt ttctgtgtgt ccttgaccc tgaaggacag aggggaagt tctgtccct acagagatgg tgaagggaag gaaatggggcc cctgggacac aactaaggac ctgagctcct agtatac tttgtctct gttctgtacc ttgcatct ggaaggggaa tgcgtgttt ttctgtctg cagacacgct agtatctgta ttacaggccaa gctgttcag gtagctagctg tcttgagcat gggcaacaga aggggacagta ggtgaagatg gacagctctc taacagatga cacactcag aatatcatt agaaagag gttgaatca ggtatagcagc gctttgtgt gtaggtgtgt gtagctctc taacagatga cacactcag tctagggtt tcaagtgtct aattctct ttctcttt ttgttga gaaatgttt ctctgtgc ccaggcctgga gttgcaatgt gcaatctgg ctactgcaa cctccgctc ccgggttcaa gcaattctc tgcctcagcc tccctcagc tccctcagc ctgggaattac aggcacagc caaacggcc ggttaacttt ttgtatt ttgtagaga tgggggttca ccatgtgtgt caggcgtgtg tggaaactct gacctcaggt gataocaa cctcggcc ccaaggtct gggatatacag gttgtgagca ccggcggccg cctcttct tttttgggg gtagcgaaltc tgcctttgt gttccaggctg gaaatggcct tggctcctg caacctccg ctctgggtt caagtgaltc tcttgcctca gctcccgag tagctggggt tacaggcagc cggccacaa ccaagctaat ttatatt ttgtgtgag atgggggttc aocatgttg ccaggcgtgt ctggaactcc cgaactcaag tgaatccac gctcagcct cccaaggctc tgggaattaca ggcatggcc accgcaocaa gttggtgtgt ctctgtatca gaattctgt tggtagcagc tgtctocaa cctgaagct actggcagcc cagtgtactgg gcttgggtc tggggcaggg cactggggc ccaagggtgg cctccctcc accgtgtcagc ccccgggggt gcttgggttagc tggcctgtc cattgccac tcaactct tttgtgaag gttccagcc ccacagggca cacactcaa gtagcagatga tggaaacccg taacactgt ctgtgtccct tcaagacagt cgtctgggaaca cacagacta ggcactcgtat agaaagca gggggccacac gtagggggcc aagttcaagc aggtctcaca tggtagaag aaaaagaa ctctgtgtcat ctgctcactcc caggggcagg cccctgtgtc ttgtgaactc cggccacagg catctgtaca</p> | A | Homo sapiens |

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
 nnnnnnnnn ccaclgctgt aagccacag agatccctaa ggaatccgc agagagagtg latgttcgga ctgcatnt
 ttttttct tctgaagag agtctgtct tgcctccag gattgagtg ggttgagtg tctggctca ctgcaaccc tgcctctgg
 gticaagaaa tttctctgcc tgaacctct gattagctgg gattacaggt gctcggccacc agccctggct aattttgca ttttagcag
 agacaggggt tcaocacgtt ggcagagctg gtttccact cctgaacct aagctggccc accctagctt cccaaagtg
 tgggattaca ggcctgagagcc cccgcccgg gtcggccggc gggagcttga ttatctaga ctacagtgag
 gaaatgagta gaaagaaatt aagactaaaa tcaaggggggaa gctttagagac actttagggga gaaatagctt gaaaggggtgat
 gctgggtgta attccagctg tggctgtggc agtgggaaaaa gaaagccagaa agaaatgaaaaa gttgggagaa gttggcagagag
 gaaagcagcagt gggcagagagct ccaaggggtgat ggcacatccc tcaclacccc ccaacagagag attgggggcta atacagagaa
 aaaaagagagct tttgtgtgt agggagggtaa ggtcaatctg ggcctgtgtg ggtccatgat gttgggcaatgt tggggccagca
 tcaagggctc agatcagag ggaagggagagct gaaagagggga ggttaaaoca ggaagccaca gctgtctgg gaaatgggaaa
 aggggagagag aggaagggcga agcctgtctc gggggaatcac ctactttt agagagagagtg gggcagaaag agaaagagag
 tgcagagtaaa agccaggtgg gggcagaggggg ctgaagggggg calaaatcc aaggaagagac tctcalagga ggaatgggtca
 aaaaatgtcac aaaaagggcag gttgtctcag cctgttaatc caccatttg ggaagggcag ggaaggtgag tgcctgagcc
 caggaagtta agggccagct agggcaacata gttgaagctc tatcttaca aaaaataca aaaaatgcca ggaatgggtgg
 cacatggctg tggcccccag tacttagagag tatgaagtg ggaaggtgtt ggaagctggg agacagtgag acaacatgg
 accactggac tccagctcga gttcagagat gaaagagtg ctcaaaaaa aaaaataaaa aaaaatcaca gttcactaag
 ataaagagag actggcaagt aggaattgga taccagagag gttcccccag tcaaggggaa agcaagagtg gttggggagag
 aatcggggct aggtcagat agggcagggga agggccagca ggaacatccc atgggagaggg gcaagggagag agtctcaggg
 gaaagggccc tgggagaggg agaaagagagaa gggcagaaac agggccagga ggaagccag ggggagagagat cataagccaa
 ggaagggggctg tggccaag tcaagggcga aaaaagagag agaaagagag ctgaatcag caaggtgagag catgtcagca
 cctcagagc aggaagggag aaggaagag agggcagagag gaaatggagat gaaatggagat gaaatggagat gaaatggagat
 aggggtgtt tttgggggg gaaagagag agggcagagat ataatctgt caccatggct caocccagat ggaatggagat ggtggcaatc
 caggtcagct caacctcac ctccagat ccaagcatt tctgtcga gctcccccag agctggggat tacaagggcaca
 caccacact ctacagtaac tttgtatt ttatgagga tgggggttgc ccaatctggc cagggtgggt tccgaactct ggcctcaaga
 gaaatgggag ggcctcccaa ggggattacag gcaatggcca cagggccgt ccaagggatg caltctaac aagggcagag
 gaaatctgg agggagagag gaaatggagag gcaagggggg tacaagggag tggcagagat tccaaagag aatgggttt
 ccaatggagag tggagggcag gaaatggag cagctcggga aagagagagaa ggtcgggggca ggaacacagc tgggcaagggga
 cccctgactt gtaactaaag agcagggagc acccaagaa tccagggggg agggcagagctt ggggggggaca gcaagcttg
 cccatggcc cagggcaga ctggctgaa gggagagag ccaaggggtg agggctcagc ttaccatggg caocagggaaa
 ggggagag ggggggctgt ggggggagca cgggtggag gggggagag gggggagag gggggagag gggggagag
 gaaagggct ctatgggtg tggcct
 RSCSFNEHGY HLFQAMRLGV EEINNSTALL PNITLGYYQLY DVCSDSANVY
 ATRLVSLPG QHHIELOQDL LHYSTVLAV IGPDSNRAA TTAALLSPFL
 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETMVLTLQ KFGWTWISLV
 GSSDDYGLG VQALENQALV RGICIAFKDI MPFSAQVGDE RMQCLMRHLA
 QAGATVWVVF SSRQLARVFF ESIVLTNLTG KVVWVASEAWA LSRHITGVPG
 IQRIGMVLGV AIQKRAVPGL KAFEEYARA DKEAPRCHK GSWCSSNQLC
 RECQAFMAHT MPKLKAFSMS SAYNAYRAY VAAHGLHQLL GCASELCSRG
 RVYPWQLLEQ IHKVFHLLHK DTVAFDNRD PLSSYNIAW DWNGPKWTFT

Homo sapiens

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LR92

G Protein-Coupled Receptor GPCR3

194903

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|-----|--------|---|----------|--|--------------|
| 677 | 194904 | WO0034334- hFB41A | AX147788 | <p>VLGSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVTGFHH CCFECVPGA GTFLNKSELY RCQPCGTEEW APEGSTQCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVRSAGGRL CFLMLGSLAA GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSQLYRSF QLIIKFST KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWL VVWVPL PAREYQRPFH LVMLECTETN SLGFLAFLY NGLLSISAF CSYLKGDLPY NYNEAKCVTF SLLNFVSWI AFFTTASVVD GKYLPAANMM AGLSSLSGF GGYFPLKCYV ILCRPDLNST EHFQASIQDY TRRCGST</p> <p>gagcaacatg atcttttga agtacttgac gggtgctgic ttagcggtca cgaagcacag agtgtgatac atgtgtgic tcatggcgat gcactcgagc atgtagaagg cagtgaaggta ggtgtctcc ttcaacaaca cgggtgggga gaaagtcgcgc acgatggga agccgtagaa gggtggccag catagcaggt aggtgggtgag gatgcacatg agcacacagga ccgtctctct gggtcagcgc agcctctgic ggaatctgic tgtctggaat ccaggggaccg ccttgaacca gagtctccgg gaaatcctgg catagcacag gggtcattgg agcacgggc ccacgaatic tatccaag ataaagagga agtatgacct gtagtagagc tctggtcca caggccagat ctggccgcag aagatcttt cctggctctt gacaatgagc aggaacctgt cgtgtgtgaa gtaggggaa gggtaggcga tcaggatgga caccgtccac accaaggcaa tcaggccagt ggctgttg cactcattc gttggtcag cggatggaca atagccagat acctaggga agaaacaag tggaggcagc c</p> <p>MGFMDDNATN TSTSFLSVLN PHGAHATSPF FNFSYSDYDM PLDEDEDVTN SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYVY VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLVVKSQEK IFCGQIWPVD QQLYYKSYEL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGT IVRDFFTVF VKEKHYLTAF YVCEIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacaggc gccggcgcc atgtggagct gcagctggtt caacggcaca gggtgtgtg aggtgtgtg tgcctgccag gaacttgagc tggggctgtc actgtgtgct cgtctggggc tgggtgtggc cgtggcagtg ggctgtgtc acacggcct gctgtgtc gccaacctac acagcaaggc cagcatgacc atggccggagc tgaattgt caacatggca gttgcaggcc tgggtctcag cggcctggcc cgtgtgccc tgcctggccc ccggagctcc cgtgtgtgtg tgtgtgtgt gttgtgtgt gtccacgtgg cactgcagat cccctcaat gttgtctcac tgggtggccat gtaactacc gcccgtctga gctcgaoca ctacatcgag cgtgcactgc cggagacctc catggccagc gttgtacaaca cgtggcagct gttgtgtgtc gttgtgtgt ggcgtgtgt gaccagctc tctgtgtc tcttctac ctggagccat gttgtacaac gtcgtgccc cttgtgtgt atgcagaaag cagaagctgc cgaagccagc ctgtgtgtca tgggtgtgt gttgtgtgt cttgtgtgt tctgtgtgt ggtgtgtgt tccgtgtgt gcaagggagga caggtgtgt gaccgggaca cgggtgtgt gttgtgtgt tctgtgtgt tctgtgtgt caccgtgtgt acgtgtgt ggtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt tcgtgtgtgt agccgtgtgt cgtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cagcagcttt gttgtgtgt tttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt tgcctgtgt gttgtgtgt tttgtgtgt accatgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt ggtgtgtgt cttgtgtgt cgtgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt ggtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cgtgtgtgt atgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt</p> | Homo sapiens |
| 678 | 194904 | WO0034334- hFB41A | LR114 | <p>gagcaacatg atcttttga agtacttgac gggtgctgic ttagcggtca cgaagcacag agtgtgatac atgtgtgic tcatggcgat gcactcgagc atgtagaagg cagtgaaggta ggtgtctcc ttcaacaaca cgggtgggga gaaagtcgcgc acgatggga agccgtagaa gggtggccag catagcaggt aggtgggtgag gatgcacatg agcacacagga ccgtctctct gggtcagcgc agcctctgic ggaatctgic tgtctggaat ccaggggaccg ccttgaacca gagtctccgg gaaatcctgg catagcacag gggtcattgg agcacgggc ccacgaatic tatccaag ataaagagga agtatgacct gtagtagagc tctggtcca caggccagat ctggccgcag aagatcttt cctggctctt gacaatgagc aggaacctgt cgtgtgtgaa gtaggggaa gggtaggcga tcaggatgga caccgtccac accaaggcaa tcaggccagt ggctgttg cactcattc gttggtcag cggatggaca atagccagat acctaggga agaaacaag tggaggcagc c</p> <p>MGFMDDNATN TSTSFLSVLN PHGAHATSPF FNFSYSDYDM PLDEDEDVTN SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYVY VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLVVKSQEK IFCGQIWPVD QQLYYKSYEL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGT IVRDFFTVF VKEKHYLTAF YVCEIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacaggc gccggcgcc atgtggagct gcagctggtt caacggcaca gggtgtgtg aggtgtgtg tgcctgccag gaacttgagc tggggctgtc actgtgtgct cgtctggggc tgggtgtggc cgtggcagtg ggctgtgtc acacggcct gctgtgtc gccaacctac acagcaaggc cagcatgacc atggccggagc tgaattgt caacatggca gttgcaggcc tgggtctcag cggcctggcc cgtgtgccc tgcctggccc ccggagctcc cgtgtgtgt gttgtgtgt gttgtgtgt gtccacgtgg cactgcagat cccctcaat gttgtctcac tgggtggccat gtaactacc gcccgtctga gctcgaoca ctacatcgag cgtgcactgc cggagacctc catggccagc gttgtacaaca cgtggcagct gttgtgtgtc gttgtgtgt ggcgtgtgt gaccagctc tctgtgtc tcttctac ctggagccat gttgtacaac gtcgtgccc cttgtgtgt atgcagaaag cagaagctgc cgaagccagc ctgtgtgtca tgggtgtgt gttgtgtgt cttgtgtgt tctgtgtgt ggtgtgtgt tccgtgtgt gcaagggagga caggtgtgt gaccgggaca cgggtgtgt gttgtgtgt tctgtgtgt tctgtgtgt caccgtgtgt acgtgtgt ggtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt tcgtgtgtgt agccgtgtgt cgtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cagcagcttt gttgtgtgt tttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt tgcctgtgt gttgtgtgt tttgtgtgt accatgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt ggtgtgtgt cttgtgtgt cgtgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt ggtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cgtgtgtgt atgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt</p> | Homo sapiens |
| 679 | 194905 | G Protein- Coupled Receptor MGC7035 | BC014241 | <p>gagcaacatg atcttttga agtacttgac gggtgctgic ttagcggtca cgaagcacag agtgtgatac atgtgtgic tcatggcgat gcactcgagc atgtagaagg cagtgaaggta ggtgtctcc ttcaacaaca cgggtgggga gaaagtcgcgc acgatggga agccgtagaa gggtggccag catagcaggt aggtgggtgag gatgcacatg agcacacagga ccgtctctct gggtcagcgc agcctctgic ggaatctgic tgtctggaat ccaggggaccg ccttgaacca gagtctccgg gaaatcctgg catagcacag gggtcattgg agcacgggc ccacgaatic tatccaag ataaagagga agtatgacct gtagtagagc tctggtcca caggccagat ctggccgcag aagatcttt cctggctctt gacaatgagc aggaacctgt cgtgtgtgaa gtaggggaa gggtaggcga tcaggatgga caccgtccac accaaggcaa tcaggccagt ggctgttg cactcattc gttggtcag cggatggaca atagccagat acctaggga agaaacaag tggaggcagc c</p> <p>MGFMDDNATN TSTSFLSVLN PHGAHATSPF FNFSYSDYDM PLDEDEDVTN SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYVY VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLVVKSQEK IFCGQIWPVD QQLYYKSYEL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGT IVRDFFTVF VKEKHYLTAF YVCEIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacaggc gccggcgcc atgtggagct gcagctggtt caacggcaca gggtgtgtg aggtgtgtg tgcctgccag gaacttgagc tggggctgtc actgtgtgct cgtctggggc tgggtgtggc cgtggcagtg ggctgtgtc acacggcct gctgtgtc gccaacctac acagcaaggc cagcatgacc atggccggagc tgaattgt caacatggca gttgcaggcc tgggtctcag cggcctggcc cgtgtgccc tgcctggccc ccggagctcc cgtgtgtgt gttgtgtgt gttgtgtgt gtccacgtgg cactgcagat cccctcaat gttgtctcac tgggtggccat gtaactacc gcccgtctga gctcgaoca ctacatcgag cgtgcactgc cggagacctc catggccagc gttgtacaaca cgtggcagct gttgtgtgtc gttgtgtgt ggcgtgtgt gaccagctc tctgtgtc tcttctac ctggagccat gttgtacaac gtcgtgccc cttgtgtgt atgcagaaag cagaagctgc cgaagccagc ctgtgtgtca tgggtgtgt gttgtgtgt cttgtgtgt tctgtgtgt ggtgtgtgt tccgtgtgt gcaagggagga caggtgtgt gaccgggaca cgggtgtgt gttgtgtgt tctgtgtgt tctgtgtgt caccgtgtgt acgtgtgt ggtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt tcgtgtgtgt agccgtgtgt cgtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cagcagcttt gttgtgtgt tttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt cttgtgtgt tgcctgtgt gttgtgtgt tttgtgtgt accatgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt ggtgtgtgt cttgtgtgt cgtgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt tttgtgtgt ggtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cgtgtgtgt atgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt</p> | Homo sapiens |

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|-----|--------|---|---------|---|---|--------------|
| 680 | 194905 | G Protein- Coupled Receptor MGC7035 | LR112 | ctctctgccc tcagcattca gttgticaat gaagtagaaga aagcttagag ccagtattta tacttttgigg ttaaaatact tgattccccc tigtgtttt tacaaaaa gatttttct agaaaaalga caaatagtaa aatgaacaaa accctacgaa agaattggcaa cagccagggt ggccaggccc tgcagtgagg cgcgtgtgc tagcaaggcc tgcgggtgt ggcgcagta ccacagggt ctgaagaacat ttacagaag tgcctgagac ggcgagacat ggcgtgtgt aatgagctg attcaatagc agtgacgcgc tctctcagc caccaaagt cctgacacc ctcaccagcc cccacagata acatcagctg aggtttttt cagatgaac ctgcctaaa tcaattctc aaagtgtga caaactaaa gaataataa aaacaaaaga aaggtagaaa aaaaaaaa aaaa MWSCSWFNGT XLVEELXACQ DLQLGLSLS LLGLVVGVPV GLCYNALLVL ANLHKSASMT MPDVVYFNMA VAGLVLSALA PVHLLGPPSS RWALWSVGGG VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SSSLFYICSH VSTRALECAK MQNAEADAT LVFIFYVPA LATLYAL VLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY LILLGHTVVI SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLYRYMN QSFSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGCGCCG GGAATGTCCC CTGAATGCGC GCGGGCAGCG GCGACGCGC CTTTGGCAG CCTGGAGCAA GCCAACGCA CCCGCTTCC CTTCTTCTCC GACGTCAAG GCGACACCG GCTGTGCTG GCGCGGTGG AGACAAACCGT GCTGTGCTC ATCTTGCAG TGTCGCTGCT GGCAACGTG TCGCCCTGG TGTGTGTGC GCGCCGACGA CGCCGCGCG CGACTGCTG CTTGTACTC AACCTCTCT CGCGGACCT GCTCTTCATC AGCGTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG CCTCCCTGCT GGGCCCGGT GCCTGCCACC TGCTCTCTA CGTGATGACC CTGAGCGGCA GCGTCACCAT CCTACGCTG GCGCGGTCA GCCTGGAGGG CATGCTGRGC ATCGRGACC TGGAGCGCG CGTCCGGGT CCTCCGGGC GGCGCGGCG AGTGCTGTG GCSTCATCT GGGCTATTG GCGGTGCGC GCTCTGCTC TGTGCTCTT CTTTCGAGTC GTCCCGCAAC GGTCCCGCG CGCCGACCA GAAATTTCGA TTTCACACT GATTGGCCC AGCATTCCTC GAGATCTC GTGGGATGC TCTTTGTTA CTTTGAACCT CTTGTGTCCA GGACTGGTCA TTGTGATCAG TTACTCCAA ATTTACAGA TCACAAAGGC ATCAAGGAAG AGGCTCACCG TAAGCCTGGC CTACTCGGAG ACCACCAGA TCCGCTGTC CCAGCAGAC TTCCGGCTCT TCCGACCCCT CTTCTCTCTC ATGGTCTCCT TCTTCATCAT GTGGAGCCC ATCATCATCA CCATCTCCT CATCTGATC CAGAACTTCA AGCAAGACCT GGTCTCTGG CCGTCCCTCT TCTCTGGGT GTCCCTCTC ACATTGCTA ATTCAGCCCT AAACCCATC CTCTACACA TGACACTGTG CAGGAATGAG TGAAGAAAA TTTTGTGTG CTTCTGTTT CCAGAAAAGG GAGCCATTT AACAGACACA TCTGTCAAAA GAAATGACTT GTCGATTAT TCTGGCTAT TTCTTTATA GCCGAGTTT TCACACCTGG CGAGCTGTGG CATGCTTTA AACAGAGTTC ATTCCAGTA CCCTCCATCA GTGCACCTGT CTTTAAGAAA ATGAACCTAT GCAAAATAGAC ATCCACAGCG TCGGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATTT TCCCTTTATA AAAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCTGTAA | P | Homo sapiens |
| 681 | 194907 | G Protein- Coupled Receptor 14273 | LD22826 | ctctctgccc tcagcattca gttgticaat gaagtagaaga aagcttagag ccagtattta tacttttgigg ttaaaatact tgattccccc tigtgtttt tacaaaaa gatttttct agaaaaalga caaatagtaa aatgaacaaa accctacgaa agaattggcaa cagccagggt ggccaggccc tgcagtgagg cgcgtgtgc tagcaaggcc tgcgggtgt ggcgcagta ccacagggt ctgaagaacat ttacagaag tgcctgagac ggcgagacat ggcgtgtgt aatgagctg attcaatagc agtgacgcgc tctctcagc caccaaagt cctgacacc ctcaccagcc cccacagata acatcagctg aggtttttt cagatgaac ctgcctaaa tcaattctc aaagtgtga caaactaaa gaataataa aaacaaaaga aaggtagaaa aaaaaaaa aaaa MWSCSWFNGT XLVEELXACQ DLQLGLSLS LLGLVVGVPV GLCYNALLVL ANLHKSASMT MPDVVYFNMA VAGLVLSALA PVHLLGPPSS RWALWSVGGG VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SSSLFYICSH VSTRALECAK MQNAEADAT LVFIFYVPA LATLYAL VLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY LILLGHTVVI SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLYRYMN QSFSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGCGCCG GGAATGTCCC CTGAATGCGC GCGGGCAGCG GCGACGCGC CTTTGGCAG CCTGGAGCAA GCCAACGCA CCCGCTTCC CTTCTTCTCC GACGTCAAG GCGACACCG GCTGTGCTG GCGCGGTGG AGACAAACCGT GCTGTGCTC ATCTTGCAG TGTCGCTGCT GGCAACGTG TCGCCCTGG TGTGTGTGC GCGCCGACGA CGCCGCGCG CGACTGCTG CTTGTACTC AACCTCTCT CGCGGACCT GCTCTTCATC AGCGTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG CCTCCCTGCT GGGCCCGGT GCCTGCCACC TGCTCTCTA CGTGATGACC CTGAGCGGCA GCGTCACCAT CCTACGCTG GCGCGGTCA GCCTGGAGGG CATGCTGRGC ATCGRGACC TGGAGCGCG CGTCCGGGT CCTCCGGGC GGCGCGGCG AGTGCTGTG GCSTCATCT GGGCTATTG GCGGTGCGC GCTCTGCTC TGTGCTCTT CTTTCGAGTC GTCCCGCAAC GGTCCCGCG CGCCGACCA GAAATTTCGA TTTCACACT GATTGGCCC AGCATTCCTC GAGATCTC GTGGGATGC TCTTTGTTA CTTTGAACCT CTTGTGTCCA GGACTGGTCA TTGTGATCAG TTACTCCAA ATTTACAGA TCACAAAGGC ATCAAGGAAG AGGCTCACCG TAAGCCTGGC CTACTCGGAG ACCACCAGA TCCGCTGTC CCAGCAGAC TTCCGGCTCT TCCGACCCCT CTTCTCTCTC ATGGTCTCCT TCTTCATCAT GTGGAGCCC ATCATCATCA CCATCTCCT CATCTGATC CAGAACTTCA AGCAAGACCT GGTCTCTGG CCGTCCCTCT TCTCTGGGT GTCCCTCTC ACATTGCTA ATTCAGCCCT AAACCCATC CTCTACACA TGACACTGTG CAGGAATGAG TGAAGAAAA TTTTGTGTG CTTCTGTTT CCAGAAAAGG GAGCCATTT AACAGACACA TCTGTCAAAA GAAATGACTT GTCGATTAT TCTGGCTAT TTCTTTATA GCCGAGTTT TCACACCTGG CGAGCTGTGG CATGCTTTA AACAGAGTTC ATTCCAGTA CCCTCCATCA GTGCACCTGT CTTTAAGAAA ATGAACCTAT GCAAAATAGAC ATCCACAGCG TCGGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATTT TCCCTTTATA AAAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCTGTAA | A | Homo sapiens |

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|-----|--------|---|----------|--|---|--------------|
| 682 | 194907 | G Protein- Coupled Receptor 14273 | LR116 | <p>TCCCAGCAGT TTGGGCTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTCTG AGACCAACCT GACCAACATG GTGAGACCCC CGTCTCTACT AAAAAATAAA AAAAAATTG GCTGGGAGTG GTGGTGGGCA CCGTAAATCC TAGCTACTTG GGAGGCTCAA CCACGAGAA CTCTTGAACC TGGGAGGCAG AGGTGTCAGT GAGCCGAGAT CGTGCCATTG CACTCCAACC AGGGCAACAA GAGTGAAACT CCATCTTAAA AAAAAAATAA AAGATTGTG TATGGGTTC TTTTAAATGT GAACCTTTT AGTGTGTTG TATATGATCA AATTATAATA ATATTATTT ATGACTGTT AGCAAAAAA AAAAAAAGG GCGCGG MSPECARAAG DAPLRLEQA NRTRFFSD VKGDHRLVLA AVETTVL VLI FAVSLGNVC ALVLVARRR RGATACLVLN LFCADLLFIS APLVLAVRW TEAWLLGPVA CHLLFYVMTL SGSVTILTA AVSLDRMVC VMLQRGVRCR GRRARAVLLA LIWYSAVAA LPLCVFRV PQRPLGADQE ISICTLIWPT IPGEISWD VS FVTLNFLVPG LVIVISYSKI LQTTKASRKR LTVSLAYSRS HQIRV SQQDF RLFRTLFLM VSEFIMW SPI IDTILLILIQ NFKQDLVIWP SLPPWVVAPT FANSALNPIL YNMTCRNEW KKIFCCTWEP EKGAILTDT S VCRNDLSIIS G ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLV SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMST EERQLVTV DKLQQSTARV VVVFSPDLTL YHFFNEVL RQ NFTGA VWIAS ESWAIDPVLH NLTELGLHGT FLGITHQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVYSVYSA VYAVAHALHS LLGCDKSTCT KRVPYPWQLL EEIWKVNFTL LDHQFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYPL QRQLKNIKTS LHTVNNTPM SMCSCRQCSG QKKKPVGIHV CCFECIDCLP GTFLNHTIECP NNEWSYQSET SCFKRQLVFL EWHEAPTIAV ALLAALGFLS TLAILVIFWR HFQTPIVRSA GGPVCFMLT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPRAV SYWRYQGPY VSMAFITVLK MVIVVIGMLA RQSHPRTPD DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSAFYMCK ELPTNYNEAK FITLSMTIFY TSSVSLCTEM SAYSGVLVTI VDLLVTVLNL LAISLGYTFGP KCYMLFYPE RNTPAYFNSM IQGYTMRD</p> <p>atgagcagca attcatcct gctgggct gtcagctgt gctacgcaa cgtgaalggt tctgigga aaatccct ctgcggga tccaggga tctgtact aggttgct ttgggctg tctgggaa cctctgga tgaattca ctccattc aagcagct acicccgac caatttct gtcctctc tggcctgc gatttctg ttgggtgga cgtgagc cttcagcatg gtcaggcgg tggagagctg cttgattt tggagaggti ttgtaatt ccacacctg tttgagtg cttttgta ctctctc ttcaattg gttcattc caticgagg tacatgcgg ttactgacc cttggtctat octaccaagt tccagatc tgtgtagga attgcatca gctgttctg gattctgccc cttatgata gctggtctgt gttacaca ggtgtctatg acgagggct ggaggaatta tctgatgcc taaactgat agggaggtgt cagacogtgg taaatacaaa cttgggtgtg acagattt tctcttct tatactacc ttattctgta tggtaacata ttctgtgg ctgacgaca ggcgaagaa atagaaaaa cttgtagcaa gacagaatca tctcagaga gtacaaagc cagagtgcc aggaaggga gaaagagc taaaacctg ggggtcacag tggtagcatt tatgattca tggtaacct atagcatga ttcaattt gattcttatt tggcttatt aacctgcc tgtattatg agatttgc tgggtgtgct tattataact cagocataga tcttgatt ttatccatg gtttaggaa gcaataaag</p> | P | Homo sapiens |
| 683 | 194908 | G Protein-coupled Receptor Gpcrb4 | LR117 | <p>SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMST EERQLVTV DKLQQSTARV VVVFSPDLTL YHFFNEVL RQ NFTGA VWIAS ESWAIDPVLH NLTELGLHGT FLGITHQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVYSVYSA VYAVAHALHS LLGCDKSTCT KRVPYPWQLL EEIWKVNFTL LDHQFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYPL QRQLKNIKTS LHTVNNTPM SMCSCRQCSG QKKKPVGIHV CCFECIDCLP GTFLNHTIECP NNEWSYQSET SCFKRQLVFL EWHEAPTIAV ALLAALGFLS TLAILVIFWR HFQTPIVRSA GGPVCFMLT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPRAV SYWRYQGPY VSMAFITVLK MVIVVIGMLA RQSHPRTPD DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSAFYMCK ELPTNYNEAK FITLSMTIFY TSSVSLCTEM SAYSGVLVTI VDLLVTVLNL LAISLGYTFGP KCYMLFYPE RNTPAYFNSM IQGYTMRD</p> | P | Homo sapiens |
| 684 | 194957 | Trace Amine Receptor 4 (TA4) | AF380192 | <p>atgagcagca attcatcct gctgggct gtcagctgt gctacgcaa cgtgaalggt tctgigga aaatccct ctgcggga tccaggga tctgtact aggttgct ttgggctg tctgggaa cctctgga tgaattca ctccattc aagcagct acicccgac caatttct gtcctctc tggcctgc gatttctg ttgggtgga cgtgagc cttcagcatg gtcaggcgg tggagagctg cttgattt tggagaggti ttgtaatt ccacacctg tttgagtg cttttgta ctctctc ttcaattg gttcattc caticgagg tacatgcgg ttactgacc cttggtctat octaccaagt tccagatc tgtgtagga attgcatca gctgttctg gattctgccc cttatgata gctggtctgt gttacaca ggtgtctatg acgagggct ggaggaatta tctgatgcc taaactgat agggaggtgt cagacogtgg taaatacaaa cttgggtgtg acagattt tctcttct tatactacc ttattctgta tggtaacata ttctgtgg ctgacgaca ggcgaagaa atagaaaaa cttgtagcaa gacagaatca tctcagaga gtacaaagc cagagtgcc aggaaggga gaaagagc taaaacctg ggggtcacag tggtagcatt tatgattca tggtaacct atagcatga ttcaattt gattcttatt tggcttatt aacctgcc tgtattatg agatttgc tgggtgtgct tattataact cagocataga tcttgatt ttatccatg gtttaggaa gcaataaag</p> | A | Homo sapiens |

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|-----|--------|--|------------|--|---|-----------------|
| 685 | 194957 | Trace Amine Receptor 4 (TA4) | AAK71243.1 | <p>ttattgtaac tggcaggtt itaaagaaca gticagaac catgaattg ttcttgaaac atataaa MSSNSLLVA VOLCYANVNG SCVKPSPG SRVLVTVFG FGAVLAVFGN LLVMISILHF KQLHSPTNFL VASLACADFL VGVTVMPFSM VRTVESCWYF GRSFCTFHTC CDVAFCYSSL FHLCFISDR YIAVTDPLVY PKFTVSVSG ICISVSWILP LMYSGAVFYT GVVDDGLEEL SDALNCIGGC QTVVNQNWVL TDFLSFFIPT FIMIILYGNIFLVARROAKK IENTGSKTES SSESYPKARVA RRERKAAKTL GVTVAFMIS WLPYSIDSLI DAFMGHITPA CIYEICCWCA YVNSAMNPLI YALFYPWFRK AIKVVITGVQV LKNSSATMNL FSEHI</p> | P | Homo sapiens |
| 686 | 194958 | Trace Amine Receptor 5 (TA5) | AF380193 | <p>atgacagca attttcca acctgttg cagcttgct atgaggatgt gaaaggatc tgiattgaaa cctctatc tcttggtcc cgggtaatic tgiacagcc gtttagctt gggtcttgc tggctgatt tggaaatc tgaataaga cttctgtct tcaitttaag cagctgcat ctoacaocaa ttttctatt gctctctgc cctgtctga cttctgga cttctgga ggtgtgactg tgaatctt cagcaggtc aggacgggtg agagctgtctg gtaatttga gccaatit gtaacttca cagttgtgt gttgtgcat ttgttact ttctgtctc cactgtgtc tcaicgtcat cgaacaggtac attgtgtga cttgtccct ggtctatct accaagtcca cgtgtctgt gtcgggaatt tgcaltacgc tctctgtat tctgtctc acgtacagcg gtcgtgtgt ctacacaggt gtaatgag atgggtctgga ggaaatgta agtctctca actgcttagg tggctgtcaa attattgaa gtaacagctg ggtgtgata gatttctgt tattctcat acctacocct gtaatgata ttcttacaag taagatttt ctatagta aacaacagc tataaaatt gaaactacta gtagcaaat agaalcalcc tgaagaatt ataaatcag agtggccaag agagaagaga agcagctaa aacctgggg gtcaggtac tagcattgt tattcatg ttaccgtag attaatgt attaatgt gctttatg gctttatg atctgtgt taggaagcc ataaactia tttgtgtg ggtgttat tataactcag ccatgaatc ttgtattt gctttatg atctgtgt taggaagcc ataaactia tttaagg agatgtta aaggctagt catcaacct tagttatt tgaataaa</p> | A | Homo sapiens |
| 687 | 194958 | Trace Amine Receptor 5 (TA5) | AAK71244.1 | <p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVILYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMFLSMV RTVESCWYFG AKFCTLHSCC DVAFCYSSVL HLCFICIDRY IVVTDPLVYA TKFTVSVSGI CISVSWILPL TYSGAVFYTG VNDGGLLELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAIRI ETTSSKVESS SESYKIRVAK RERKAAKITG VTVLAFVISW LPYTVDLID AFMGFLTPAY IYEICCWWSAY YNSAMNPLY ALFYPWFRKA IKLILSGDVL KASSTISLF LE</p> | P | Homo sapiens |
| 688 | 194989 | MrgX4 G Protein-Coupled Receptor | AY042216 | <p>tgcattgt tcttctgt ccatgaga cagctctag tccagatgt gtaacaaca cctctgtg tatctgaatt cctcaactg aaagaaatt tcaagaccag gataagataa tcaicgggtc caaagccctg gccagatgag tgggggtgt tigtactaa tgttttccc atgtcagcac agaactgtg tggcagtaga gaaatgtcag gcttcagat caacaagaac tggatttcaa acttgatttg aggaaccca ccttttga gtaagaa gtaagaa atctgtgt cttcttct cttcttct aatgagaca gtaaatcca taccagaggg tggggggag aatcagatg gtaacagctg gtaacatc ctgtttgtg ttccaggggg caccagacta gagtttctga gcatgatcc aaccgtcca gttctggta caaaactgac accaatcaac ggaactgag agactctg ctacaatcag acctgagct tccaggtgt gacgtgcatc atttccctg tggagctgac aggaacagcg gtaggtct gggtctggg ctaccgtag cgaaggagc cgtcttccat ctacatctc aaactggcg cagcagact cctctctc agcttccaga taatctgc gcatagc ctatcaata tcaagcaat catccgcaaa atctctgt ctgtgagac ctttccac tttaagggc tgaatgtct gaaagccatc agcaccagc gctgtctg tttctgtg ccatctgt acctgtccg ccggccaca cactgtcag cggctgtgtg tgtctgtc tgggctgt cctgtgtg tagtgtgt gaaaggt tctgtgact cctgttatt ggtgtgact tagttgtg tgaacgtca gatttcaac cagctgtgtg gctgtgtg ttatgtgt tctgtgt ttccagctg gttctgtg tcaagatct ctgtgtatcc cgggaagatc cgtgtgacag gctgtgacag accatctgtc</p> | A | Homo sapiens |

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|-----|--------|---|------------|---|---|-----------------|
| 689 | 194989 | MrgX4 G Protein-Coupled Receptor | AAK91807.1 | <p>tcacagtgct ggcttctct cctgcgcc tgcctcgg cattctgggg gcoctaatt acaggatgca cctgaattg gaagtctat atgtcaltgt tnatctgggt tgcaltgccc tgcctctct aaacagtagt gccaacocca tcaattact ctctggggc tcttaggc agcgtcaaaa taggcaaac ctgaagctgg ttccagag agctctcag gcaagocctg aggtggataa aggtgaaggg cagcttctg aggaagocct ggagctgctg ggagcagat tggggcag agggagagoc tctgocctgt cagtcagacg ggacttgag agcaacacgt tctgccacc ctgacaatt acatggctt tcttaggt ttgocctcag aatgtctca gtggaactc aagttctca aataaagtt tatcaact gacagtgc gtttcaacc atggaaagca ttgctcag agtaaaagt ttgg MDPTVPVFGT KLTPINGREE TPCYNQTLST TVLTCISLV GLTGNAVVLW LLGYRMRRNA VSYILNLAA ADFLFSFQI IRSPRLINI SHLRKILVS VMTPFYFTGL SMLSASTER CLSVLWPIWY RCRPHTLSA VVCVLLWGLS LLFSMLEWRF CDFLFGADS SWCETSDRIP VAWLFLCVV LCVSSLVLLV RILCGSRKMP LTRLYVTILL TVLVFLLCGL PFGILGALTY RMHLNLEVLV CHVYLVCMMSL SSLNSSANPI IYFFVGSFRQ RQNRQNLKL V LQRALQDKPE VDKGEGQLPE ESLESGSRL GP</p> | P | Homo sapiens |
| 690 | 195015 | G Protein- Coupled Receptor GPR82 | AF411111 | <p>atgaacaca atacaacatg tattcaoca tctatgatct ctctcagtc ttacaacatc attacaloc tctttgat tgttggtgt ttggaaaca cttctctca atggatatt ttacaacaaa taggtataaa aacatcaacg cacatctacc tgcacacct tggactgca aacttacttg tggcagctgc catgcttctc atggatattc attctcgaa aggtttccaa tgggaataic aatctgctca atgcaagtg gtcaatttc tgggaactct atccatgcat gcaagatgt tggcagctc cttaattta agttgagtg ccaataagccg ctatgctacc ttaatgcaaa aggaattctc tcaatagct actatgctc atgagaatc attatggc catctacga aaaaatttcg ccagcccaac tttgctagaa aactatgcat ttacataggg ggagtgtgac tgggcataat catccaggt accgtatact actcagtcac agaggctaca gaaggagaag agagocctatg ctacaatcgg cagtatggaac taggagccat gatctctcag atgacaggtc tcaatggaac cacatttat ggatttctc ttatagatg actaacatca tactactct ttgtaagcca tctgagaana atagaacct gtaactccat tatggagaana gatttgacti acagtctgt gaaaagacat ctttggca tccagattct actaatagt tgcctcttc ctatagrat ttttaaacc aittttatg ttctacaca aagagataac tgcagcaat tgaattatt aatagaaca aaaaacalc tcaactgtc tgcctcgcc agaaagtagca cagaacctat tatattctt ttatagaca aaacattcaa gaagacacta tataactct ttacaaagtc taattcagca catatgcaat cataagtg a</p> | A | Homo sapiens |
| 691 | 195015 | G Protein- Coupled Receptor GPR82 | AAL26482 | <p>MNNNTTCTQP SMISSMALPI IYLLCIWGV FGNTLSQWIF LTKIGKKTST HYLSHL VTA NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTLMSH ASMFVSLJL SWIAISRYAT LMQKDSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVGLIIPV TVVYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLJYSSVKRH LLVJQILLV CFLPYSEKFP IFVYVLHQDN CQQLNYLIET KNILTCLASA RSSTDPIUFL LLDKTFKKTL YNLFTKSNSA HMQSYG</p> | P | Homo sapiens |

| SEQ ID NO: | LSID | Gene | Source ID | Sequence | Code | Species Name |
|------------|------|-----------------|-------------|--|------|--------------|
| 1 | 127 | 5-HT1A Receptor | NM_000524 | atggatgtgc tcagccctgg tcagggcaac aacaccacat caccaccggc tccctttgag accggcgcca acactactgg tatctccgac gtgaccgtca gctaccaagt gatcacctct ctgtctgg gcagctcat ctctcgcg gtgctggca atgctgctg ggtggctgcc atgctctgg agcgctccct gcagaaagtgc gcaattatc ttattggctc ttggcggtc accgacctca tgggtgctgg gtggtgctg cccatggcgc cgctgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgttcacgc ccctcgacgt gctgtgctgc acctcatcca tcttgacct gtgcgccatc ggcctggaca ggtactgggc catcacggac cccatcgact acgtgaacaa gaggacgccc cggccgcgtg cgctcatctc gctcacttgg cttattggct tctcatctc tatcccgccc atcctgggct ggcgcacccc ggaagaccgc tcggaccccg acgcatgcac cattagcaag gatcatggct acactatcta tccacctt ggagctttct acatcccgct gtgctcatg ctggttctct atggcgcat atccgagct gcgcgttcc gcacccgcaa gacgtgcaa aaggtgaga agaccggagc ggacacccgc catggagcat ctcccgccc gcagcccaag aagagtga atggagagtc ggggagcagg aactggaggg tggcgctgga gagcaaggct gggggtgctc tgtgcgcaa tggcgcggtg aggcaagggt acgatggcg cgccctggag gtgctcagg tgcaccaggt gggcaactcc aaagagcact tgcctctgcc cagcaggct ggtcctacc ctgtgcccc cgctcttctc gagaggaaa atgagcgcaa cgccgagcg aagcgcaaga tggccctggc cegagagagg aagacagtga agcgcgtggg tctcatctg ggcaccttca tctctgctg gctgcccctc ttcatcgctg ctcttcttct gcccctctgc gagacagct gccacatgcc caccctgttg ggcgccataa tcaattggct gggtactctc aactctctgc ttaaccccgct catttacgca tacttcaaca aggacttcca aaacgcgtt aagaagatca ttaagtgtaa ctctgcgcg cagtga | A | Homo sapiens |
| 2 | 127 | 5-HT1A Receptor | NP_000515.1 | MDVLSPGQGN NTTSPAPFE TGGNTTGISD VTVSYQVITS LLLGTLIFCA VLGNACWAA IALERSIQNV ANYLIGSLAV TDLMSVLVL PMAALYQVLN KWTIGQVTC DLFALDVLCC TSSILHLCAI ALDRYWAITD PIDVYVNRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDATISK DHGYTIYSTF GAFYIPLLLM LVLYGRIFRA ARFIRKTVK KVEKTGADTR HGASAPAPQPK KSVNGESGSR NWRILGVESKA GGALCANGAV RQGDGALE VIEVHRVGN KEHLPLPSEA GPTPCAPASE ERKNERNAEA KRKNALARER KTVKTLGIIM GTFLICWLFP FIVALVLPPC ESSCHMPTLL GAINNLGYS NSLLNPVIYA YFNKDFQNAF KKIKNCFER Q | P | Homo sapiens |
| 3 | 128 | 5-HT1B Receptor | NM_000863 | atggaggaac cgggtgctca gtgcgtcca cgccgcgcgc cggtctccga gacctgggtt cctcaagcca actatctctc tgcctccctcc caaactgca gcgcaagga ctacatttac caggactcca tctccctacc ctggaagata tgcctgggta tgctattggc gctcatcacc ttggccacca cgcctcccaa tgcctttgtg atgcccacag tgcaccggac cgggaaactg cacaccccg ctaactacct gatgcctct ctggcggtca cgacctgct tgtgtccatc ctggtgatgc ccatcagcac catgtacact gtacccggcc gctggacact gggccagggtg gtcgtgact tctgctgtgc gtggacatc actgtgtgca ctgcctccat cctgcacctc tgtgtcatcg cctgggaccg ctactgggccc atcagggagc cgtggagta ctacgctaa aggactccca agagggcggc ggtcatgac gcgtgtgtg ggtcttctc catctctatc | A | Homo sapiens |

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|---|-----|--------------------|-------------|---|-----------------|
| 4 | 128 | 5-HT1B Receptor | NP_000854.1 | <p>tcgtgcccgc cttcttctg ggtcaggct aagggcgaag aggaggtgtc ggaatgctg gtgaacaccc accacatcct ctacacggtc tactccacgg tgggtgcttt ctactcccc acctgctcc tcatgcccct ctatggccgc atctacgtag aagccccctc ccgattttg aaacagacgc ccaacaggac cggcaagcgc ttgacggag ccagctgat aaccgactcc cccggttcca cgtcctcggt cacctctatt aactcgcggg ttcccagct cccagcgaa tcggatctc ctgtgtatgt gaaccaagtc aaagtgcgag ttcccagcgc cctgctggaa aagaagaaac tcatggccgc tagggagcgc aaagccacca agaccctagg gatcattttg ggagccttta ttgtgtgtg gctacccttc ttcatcatct cctagtgtat gctatctgc aaagatgcct gctggttcca cctagccatc tttagactct tcacatggct gggctatctc aactccctca tcaaccccat aatctatacc atgtccaatg aggactttaa acaagcattc cataaactga tacgttttaa gtgcacaagt tga</p> <p>MEEPGAQCAP PPPAGSETWV PQANLSSAPS QNCSAKDVIY QDSISLPWKV LVMMLALIT P LATLSNAFV IATVYTRKL HTPANYLIAS LAVTDLVSI LVMPISTMYT VTGRWTLGQV VCDFWLSSDI TCCTASILHL CVIALDRYWA ITDAVEYSK RTPKRAAVMI ALWVFSISI SLPFFFWRQA KAEDEVSECV VNTDHILYTV YSTVGAFYFP TLLIALYGR IYVEARSRL KQTPNRTGKR LTRAQLITDS PGSTSVTSI NSRVPDPFSE SGSPVYNQV KVRVSDALLE KKKILMAARER KATKTLGIIL GAFIVCWLPF FIISLWMPIC KDACWFHLAI FDFFTWLGYL NSLINPIIYT MSNEDEKQAF HKLIRFKCTS</p> | Homo sapiens |
| 5 | 129 | 5-HT1D Receptor | NM_000864 | <p>agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A gtcagcagaa ggccttcccc agaggcctc caacagatcc ctgaatgcca cagaacaccc agaggcttgg gatcccaagg cctccaggc gctcaagatc tcccttgccg tggctctttc cgtcatcaca ctggccacag tccctccaa tgcctttgta ctaccacca tcttactcac caggaagctc cacacccctg ccaactacct gatggctcc ctggccacca cggacctctt ggtttccatc ttggtaatgc ccatcagcat cgcctatacc atcaccca cctggaaactt tggccaaatc ttgtgtgaca tctggctgtc ctctgacatc acgtgctgca cagcctccat cctgcatctc tgtgtcattg ccttgacag gtactgggca atcacagatg ccttgggaata cagtaaacgc aggaacgctg gccacgccc caccatgatc gccattgtct gggccatctc catctgcac tccatccccc cgtcttctg gcggcaggcc aaggccccagg aggaagatgc ggactgtctg gtgaacacct ctcatctc ctacacccat tactccacct gtggggcctt ctacattccc tcggtgttgc tcatcatcct atatggccgg atctaccggg ctgcccggaa ccgcattctg aatccacct cactctatgg gaagcgtctc accacggccc acctcatcac aggctctgcc gggtcctcgc tctgtctgct ttttcaacca cgtgaaaaatc aagcttgcgt acagtgcct ctcggctggc tccccctct ctgctcgaga aaggaagcc actaaaaatc tgggcatcat ggaacgcaag aggtattctg gctggtctgc ctcttctggt gtgtctctgg tccctcccc tctgggggcc tttatcatct tccatccggc gctctttgac ttcttcaact ggttaggcta ctgcccggac tccgtgtgga tccacccggc gctctttgac ttcttcaact ggttaggcta tttaaaactc ctcatcaatc caataatcta cactgtgttt aatgaagat ttccgcaagc tttccagaaa attgtccctt tccggaagcc ctctagctc tattcgatga ggtaaagaaa MSPLNQAEG LPQASNRSL NATETSEAWD PRTLQALKIS LAVLSVITL ATVLSNAFVL P TTILLTRKLIH TPANLIGSL ATTDLLVSIL VMPISIAITI THTWNFGQIL CDIWLSSDIT CCTASILHLC VIALDRYWA I TDALEYSKRR TAGHAATMIA IVWAISICIS IPPLFWRQAK</p> | Homo sapiens |
| 6 | 129 | 5-HT1D Receptor | NP_000855.1 | | Homo sapiens |

7

130

5-HT1E
Receptor

NM_000865

AOEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGRI YRAARNRIILN PPSLYGKRF
TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVKIK LADSALERKR ISAARERKAT
KILGIILGAF IICWLPEFVV SILVLPICRDS CWIHPALFDF FTWLGYLNSL INPIIYTVFN
EEFRQAQKI VPFKAS

A

Homo
sapiens

atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcgggttcgc
agtgaactt ctggagccag ctggagctgc cggttgtccc agtgcgcgc gcgtgcacgc
accgtccaca agagtctcag tcgcccaggc cagcacagtc cagcacagtc tcaccttatt
gcaacctccg cctcccgggt tcgcccgggttc cgcgcctcag cttccctagta gctgggattg
caggcactca ccaccatgcc cggctaattt ttgaaattt tagtgagac gggatttcac
catgttgcc atgtgtgtct tgaaccccg accctggatg attcgccgc ctggcctcc
caaatgtctg gaattacagg cgaaccttca ctcaagaaga atgtgtggc ccttccctt
accaacagaa aatggaacac aagagaccac atagctgaac aaattatag ctccttaca
gtgagaacc ttcgaggcta catagtcttc agcacaagga aaataacaa cagcttctcc
acagtgtaga ctgaacaag ggaacatga acatcacaa ctgtaccaca gaggccagca
tggctataag acccaagacc atcactgaga agatgctcat ttgcatgact ctggtgttca
tcaccacct caccagttg ctgaacttgg ctgtgatcat ggctattggc accaccaaga
agctccacca gctgccaac tactaatct gtctcttggc cgtgacggac ctctgtgtg
cagtgtctgt catgcccctg agcatcatct acattgtcat ggatcgctgg aagcttgggt
acttctctg tgaggtgtgg ctgagtggtg acatgacctg ctgcacctgc tccatctcc
acctctgtgt cactgcccgt gacaggtact gggccatcac caatgctatt gaatacgcca
ggaagaggac ggccaagagg gcgcgctga gctccttacc gctctggacc atctccattt
tcattctcat gcccctctg ttctggagaa gccaccgccc cctaagccct ccccttagtc
agtgcacct ccagcacgac catgttatct acaccattta ctccacgctg ggtgcgtttt
atctccctt gactttgata ctgattctct attaccggat ttaccacgag gccaaagacc
ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt
cttttgcaag ttgtaaactt acacagactt tctgtgtgtc tgacttctcc acctcagacc
ctaccacaga gttgaaaag ttccatgctt ccatcaggat ccccccttc gacaatgatc
tagatcacc aggagaacgt ctgacgatct ctgacacag ggaacggag gacgacgca
tcctggggct gattctgggt gcattcattt tatcctggct gccattttt atcaaaagat
tgattgtggg tctgagcatc tacaccgtgt cctcggaagt ggccgacttt ctgacgtggc
tcggttatgt gaattctctg atcaacctc tgcctatagc ggttttaaat gaagacttta
agctggcttt taaaagctc attagatgcc gagagcatac ttagactgta aaaagctaaa
aggcacgact ttttccagag cctcatgagt ggtgggggt aaggggtgca acttattaat
cttgaaacat acttggttca ggagagtgtg taagtattgt tgccttctgt tcttctgtg
ttgtttgtt ttgtctgtt ttgtttgagg atgttattt ggctgtgtgt tttctacctc
tggtcttctc ttgtatcat aatttcaat aaacttattc atacaaaaac aaaaaaaaa
aaaaaaaa

8

130

5-HT1E
Receptor

NP_000856.1

MMINPCTTEA SMAIRPKTIT ERMICMTLV VTTITLTLN LAVIMAIGTT KKLHPANYL P
ICSLAVTDLL VAVLVNPLSI IYIVMDRWKL GYFCEVWLS VDMCTCTCSI LHLCLVALDR
YWAITNAIEY ARKRTAKRAA LMILTWTIS IFTSMPLFW RSHRLSPPP SQCTIQHDHV
IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCKLTQ

Homo
sapiens

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|----|-----|--------------------|-------------|---|-----------------|
| 9 | 131 | 5-HT1F Receptor | NM_000866 | <p>TFCVSDPSTS DPTTEFEKFKH ASIRIPPFDN DLDHPPERQQ ISSTRERKAA RILGLILGAF ILSWLFFFIK ELIVGLSIYT VSSEVADFLT WLGYVNSLIN PLYTSFNEF EKLAFFKLIR CREHT</p> <p>atggatttct taaattcatc tgatcaaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctgggtgc cctcactctg tctgggctgg cactgactgac acaactatc aactcccttg tgatcgctgc aattattctg acccggaagc tgcaccatcc agccaattatc ttaaatttgtt ccttgagctg cacagatttt cttgtggctg tcttggtgat gcccttcagc attgtgtata ttgtgagaga gagctggatt atgggggcaag tggctgtgga catttggtg agtgtgaca ttacctgctg cacgtgctcc atcttgcac tctcagctat agcttggat cggatcgag caatcacaga tgctgttgag tatgccaga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctbattc tggaggcacc aaggaactag cagagatgat gaatgcatca tcaagcacga ccacattggt tccaccattt actcaacatt tggagctttc tacatcccac tggcattgat ttgatcctt tactacaaaa tatatagagc agcaaaagaca ttataccaca agagacaagc aagtaggatt gcaaggagg aggtgaatgg ccaagtcctt ttggagagtg gtgagaaaaa cactaaatca gtttccacat cctatgtact agaaaagtct tatctgacc catcaacaga ctttgataaa attcatagca cagtgagaag tctcaggtct gaattcagc atgagaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa gcagccacta ccctgggatt aaatttgggt gcatttghtaa tatgttggtc tctttttttt gtaaaagaat tagttgttaa tgtctgtgac aaatgtaaaa ttcttgaaga aatgtccaat tttttggcat ggcttgggta tctcaattcc cttataaatc cactgattta cacaaatctt aatgaagact tcaagaaaaa attccaaaaa cttgtgcgat gtcgatgta g</p> <p>MDFLNSSDQN LTSEELNRM PSKILVSLTL SGLAMTTTI NSLVIAAIV TRKLHPANY P LICSLAVTDF LVAVLMPFS IVYIVRESWI MGQVVCDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIIVMII SVFISMPPLF WRHQTSRDD ECIKHDHIV STIYSTFGAF YIPLALILIL YKIIYRAKT LYHKRQASRI AKEEVNGQVL LESEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSIRS EFKHEKSWRR QKISGTREK AATLGLILG AFVICWLPFF VKELVNVCD KCKISEEMSN FLAWLGYLNS LINPLIYTI F NEDEFKAFQK LVRCRC</p> <p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagggtgaat ggtgagcaga aactataacc tgttagtctc tctacacctc atctgctaca agttctggct tagacatgga tatttttgt gaagaaaaa cttctttgag ctcaactacg aactccctaa tgcaattaaa tgatgacacc aggtctaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtcgact ctgaaaaatcg aaccacactt tctgtgaa ggtgcctctc accgtctgtt cttctcttac ttcattctca ggaaaaaaac tggctgctt tactgacagc cgtagtgtt attctaacta ttgctggaaa catactctgc atcatggcag tgtccctaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgcccatag ctgatctgct gctgggttcc ctgttcacat ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tctgcccagc aagctttgtg cagtctggat ttacctggac gtgctcttct ccacggcctc catcatgcac cctctgcgca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagccgc ttcaactcca gaactaaggc</p> | Homo sapiens |
| 10 | 131 | 5-HT1F Receptor | NP_000857.1 | <p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagggtgaat ggtgagcaga aactataacc tgttagtctc tctacacctc atctgctaca agttctggct tagacatgga tatttttgt gaagaaaaa cttctttgag ctcaactacg aactccctaa tgcaattaaa tgatgacacc aggtctaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtcgact ctgaaaaatcg aaccacactt tctgtgaa ggtgcctctc accgtctgtt cttctcttac ttcattctca ggaaaaaaac tggctgctt tactgacagc cgtagtgtt attctaacta ttgctggaaa catactctgc atcatggcag tgtccctaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgcccatag ctgatctgct gctgggttcc ctgttcacat ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tctgcccagc aagctttgtg cagtctggat ttacctggac gtgctcttct ccacggcctc catcatgcac cctctgcgca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagccgc ttcaactcca gaactaaggc</p> | Homo sapiens |
| 11 | 132 | 5-HT2A Receptor | NM_000621 | <p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagggtgaat ggtgagcaga aactataacc tgttagtctc tctacacctc atctgctaca agttctggct tagacatgga tatttttgt gaagaaaaa cttctttgag ctcaactacg aactccctaa tgcaattaaa tgatgacacc aggtctaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtcgact ctgaaaaatcg aaccacactt tctgtgaa ggtgcctctc accgtctgtt cttctcttac ttcattctca ggaaaaaaac tggctgctt tactgacagc cgtagtgtt attctaacta ttgctggaaa catactctgc atcatggcag tgtccctaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgcccatag ctgatctgct gctgggttcc ctgttcacat ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tctgcccagc aagctttgtg cagtctggat ttacctggac gtgctcttct ccacggcctc catcatgcac cctctgcgca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagccgc ttcaactcca gaactaaggc</p> | Homo sapiens |

atctctgaaa atcattgtctg ttgggacct atcagtaggt ataccatgc caataccagt
 ctttgggcta caggacgatt cgaaggtctt taaggagggg agttgcttac tcgcccagta
 taactttgtc ctgacgtggt cttttgtgtc attttctatt cccttaacca tcatggtgat
 cactacttt ctaactatca agtcactcca gaaagaagct actttgtgtg taagtgatct
 tggcacacgg gccaaattag cttctttcag cttcctccct cagagttctt tgtcttcaga
 aaagctcttc cagcgtcga tccataggga ccaagggtcc tacacaggca ggaggactat
 gcagtcctac agcaatgagc aaaggcctg ccagggtgctg ggcacgtgct tcttccctgtt
 tgtgtgtgat tgggtgccct tcttcacac aaacatcatg ccgtcatct gcaagagatc
 ctgcaatgag gatgtcattg gggccctgct caatgtgttt gtttggatcg gttatctctc
 ttcagcagtc aaccactag tctacacact gttcaacaag acctataggt cagccttttc
 acggtatatt cagtgctcagt acaaggaaaa caaaaaacca ttgcagttaa ttttagtgaa
 cacaataccg gctttggcct acaagtcctag ccaacttcaa atgggacaaa aaagaattc
 aaagcaagat gccaaagaca cagataatga ctgctcaatg gttgctctag gaaagcagca
 ttctgaagag gcttctaaaag acaatagcga cggagtgagt gaaaagggtg gctgtgtgtg
 ataggctagt tggcgtggca actgtggaag gcacactgag caagttttca cctatctgga
 aaaaaaaat atgagattgg aaaaaattag acaagtcctg tggaaaccaac gatcatatct
 gtatgcctca ttttattctg tcaatgaaaa ggggggttca atgtacaaaa atgtgtgctt
 ggaataatgt ctgacagcat ttacactttt attgtataat tatgaagccc taagtaaatc
 aatgatatgt ctttaaaatg attcactttt attgtataat tatgaagccc taagtaaatc
 taatataact tctattttca agtggaacc ttgtgctat gctgttctat gatgacatgg
 gatgagttg gttacctatt gccgtaaaaa aaaaatgata taaatagtg aatttttatt
 gaataaatg gcctcttaa aattatcttt aaaaacttact atggtatata ttttgaaggg
 agaaaaaaa aaagccacta agtcagtggt tataaaatct gtattgtctaa gataattaaa
 tgaataactt gacaacattt tctatagata ccattttgaa atattcacia ggttgcgtggc
 atttgctgca ttcaagttta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa
 ctattgtctg tttctcttct actcttctg ctttactctg aatttccagt gtggtcttgt
 ttaatatgtg ttctcttagg taaactagca aaaggatgat ttaacattac caaatgcctt
 tctagcaatt gcttctctaa aacagcacta tggaggtatt tggtaacttg ctgtgaaatg
 actgcatcat gcattgcactc ttgtgagcag taaatgtata ttgatgtaac tgtgtcagga
 ttgaggatga actcagggtt ccggctactg acagtggtgag agtcctaggga catctctgta
 aaaagcaggt gacttctcta tgacactcat caggtaaact gatgctttca gatccatcgg
 ttatactat ttattaaaaa cactctgctt ggtccacaa tcaatctattg agtgatcatt
 tatgtgtgaa gcaaatctct agatatgaga aatataaaaa taattaaaaa aaaaatccttg
 ccttcaaacg aaatggctcg gccaggcacg gagggtcgtg catgtaatcc tagcactttg
 ggaggctgag atgggaggat cacttgaggc caagagtgtg agaccaacct ggttaacaaa
 gtgagacctc cctgtctcta caaaaaaat caaaaaatta tctgatcctt gtggcacaca
 actgtgttcc cagctacagg ggaggctgag acgcaaggt cacttgagcc cagaagctca
 aggtgaggt gagcaaggt cacaccactg ccatttctct ctgggcaaca gagtggagcc
 ctatcacccc gaattc

12

132

5-HT2A
 Receptor

NP_000612.1

MDILCENTS LSSTNSLMQ LNDTRLYSN DFNSGEANTS DAFNWTVDSE NRTNLSCEGC P
 LSPSCLSLLH LQKNWSALL TAVVILTIA GNILVIMAVS LEKKLQATN YFLMSLAIAID

Homo
 sapiens

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|----|-----|--------------------|-------------|---|-----------------|
| 13 | 133 | 5-HT2B Receptor | NM_000867 | <p>MLGLFLVMPV SMLTILYGYR WPLPSKLCV WIYLDVLFST ASIMHLCAIS LDYVAIQNP IHHSRENSRT KAFLKIIAVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF VSFFIFLTIM VITYFLTIKS LQKEATLCVS DLGTRAKLAS FSFLPOSSLS SEKLFORSIH REPGSYTGRR TMOQISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA LLNFEWIGY LSSAVNPLVY TLFNKTYRSA FSRVYQCQYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSQDQAKTTD NDCSMVALGK QHSEASKDN SDGVNEKVSC V</p> <p>tactaaccat gctgaccact gttcggaaag ggaatgaac acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaaaag cacaatttctt gagcacattt tgcagagcac cttbtgttcc gttatctctt ctaactggtc tggattacag acagaatcaa taccagagga aatgaaacag attgttgagg aacagggaat taaactgcac tgggcagctc tttctgatact catggtgata ataccacaa ttggtggaaa tacccttggt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaattgccc ttggcggctg ctgatttgct ggttggattg tttgtgatgc caattgccc cttgacaata atgtttgagg ctatgtggcc cctccactt gttctatgct ctgcccgtgtt atttcttgac gttctctttt caaccgcatc catcatgcat ctctgtgcca ttctagtga tcgtttacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggtcacagc attcatcaag attacagtgg tgtgtgtaaat ttcaataggc attgccattc cagtcctcat taaaggata gagactgatg tggacaaccc aaacaatc acctgtgtgc tgacaaaagga acgttttggc gatttcagc tctttggctc actggctgcc tcttcacac ctcttgcaat tatgattgtc acctacttcc tcaactacca tgctttacag aagaaggctt acttagtcaa aaacaagcca cctcaacgcc taacatgggt gactgtgtct acagttttcc aaagggatga aacacottgc tgcacacgg aaaaagtggc aatgctggat ggttctcgaa aggacaaggc tctgcccac tcaggtgatg aaacacttat gcgaagaaca tccacaattg ggaanaagtc agtgcagacc attccaacg aacagagagc ctcaaggctc ctagggattg tgtttttctt ctttttgctt atttggtgc cttctttat tacaaatata actttagttt tatgtgattc ctgtaaccaa actactctcc aaatgctcct ggagatattt gtgtggatag gctatgttcc ctgaggagtg aatcctttgg tctacaccc cttcaataag acatttcggg atgcatttgg cggatatatc acctgcaatt accggggccac aaagtcagta aaactctca gaaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaaat gggatttaacc ctgccatgta ccagagtcca atgaggctcc gaagttcaac cattcagctt tcatcaatca tttactaga tacgcttctc ctcactgaaa atgaagggtga caaactgaa gagcaagta gttatgtata gcgaactggc cagttgtcat caacataat gatgagtaag atgatgaatg agatgtaaat gtgcccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaacct aagatgtaag tattagaat atctaattt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaaa atccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataat ttcaagctttt aaaaaaaaa</p> <p>NP_000858.1</p> <p>ILMVIPTIG GNTLVILAVS LEKLIQYATN YFLMSLAVD LVLGLFVMPI ALLTIMFAM WPLPLVLCPA WFLDLVLFST ASIMHLCAIS VDRYIAIKKP IQANQYNSRA TAFIKITVW LISIGIAIPV PIKGIETDND NPNNITCVLT KERFGDFMLF GSLAAFFTPL AIMIVTYFLT IHALQKAYL VKNKPPQRLT WLTSTVTFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p> | Homo sapiens |
| 14 | 133 | 5-HT2B Receptor | NP_000858.1 | <p>MLGLFLVMPV SMLTILYGYR WPLPSKLCV WIYLDVLFST ASIMHLCAIS LDYVAIQNP IHHSRENSRT KAFLKIIAVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF VSFFIFLTIM VITYFLTIKS LQKEATLCVS DLGTRAKLAS FSFLPOSSLS SEKLFORSIH REPGSYTGRR TMOQISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA LLNFEWIGY LSSAVNPLVY TLFNKTYRSA FSRVYQCQYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSQDQAKTTD NDCSMVALGK QHSEASKDN SDGVNEKVSC V</p> <p>tactaaccat gctgaccact gttcggaaag ggaatgaac acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaaaag cacaatttctt gagcacattt tgcagagcac cttbtgttcc gttatctctt ctaactggtc tggattacag acagaatcaa taccagagga aatgaaacag attgttgagg aacagggaat taaactgcac tgggcagctc tttctgatact catggtgata ataccacaa ttggtggaaa tacccttggt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaattgccc ttggcggctg ctgatttgct ggttggattg tttgtgatgc caattgccc cttgacaata atgtttgagg ctatgtggcc cctccactt gttctatgct ctgcccgtgtt atttcttgac gttctctttt caaccgcatc catcatgcat ctctgtgcca ttctagtga tcgtttacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggtcacagc attcatcaag attacagtgg tgtgtgtaaat ttcaataggc attgccattc cagtcctcat taaaggata gagactgatg tggacaaccc aaacaatc acctgtgtgc tgacaaaagga acgttttggc gatttcagc tctttggctc actggctgcc tcttcacac ctcttgcaat tatgattgtc acctacttcc tcaactacca tgctttacag aagaaggctt acttagtcaa aaacaagcca cctcaacgcc taacatgggt gactgtgtct acagttttcc aaagggatga aacacottgc tgcacacgg aaaaagtggc aatgctggat ggttctcgaa aggacaaggc tctgcccac tcaggtgatg aaacacttat gcgaagaaca tccacaattg ggaanaagtc agtgcagacc attccaacg aacagagagc ctcaaggctc ctagggattg tgtttttctt ctttttgctt atttggtgc cttctttat tacaaatata actttagttt tatgtgattc ctgtaaccaa actactctcc aaatgctcct ggagatattt gtgtggatag gctatgttcc ctgaggagtg aatcctttgg tctacaccc cttcaataag acatttcggg atgcatttgg cggatatatc acctgcaatt accggggccac aaagtcagta aaactctca gaaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaaat gggatttaacc ctgccatgta ccagagtcca atgaggctcc gaagttcaac cattcagctt tcatcaatca tttactaga tacgcttctc ctcactgaaa atgaagggtga caaactgaa gagcaagta gttatgtata gcgaactggc cagttgtcat caacataat gatgagtaag atgatgaatg agatgtaaat gtgcccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaacct aagatgtaag tattagaat atctaattt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaaa atccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataat ttcaagctttt aaaaaaaaa</p> <p>NP_000858.1</p> <p>ILMVIPTIG GNTLVILAVS LEKLIQYATN YFLMSLAVD LVLGLFVMPI ALLTIMFAM WPLPLVLCPA WFLDLVLFST ASIMHLCAIS VDRYIAIKKP IQANQYNSRA TAFIKITVW LISIGIAIPV PIKGIETDND NPNNITCVLT KERFGDFMLF GSLAAFFTPL AIMIVTYFLT IHALQKAYL VKNKPPQRLT WLTSTVTFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p> | Homo sapiens |

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|----|-----|--------------------|-----------|--|-----------------|
| 15 | 134 | 5-HT2C Receptor | nm_000868 | <p>LMRRSTIGK KSVQTISNEQ RASKVLGIVE FLFLMWCPE FITNITLVC DSCNQTTLOM LLEIFWVIGY VSSGVNPLVY TLENKTFRDA FGRIYTCNRYR ATKSVKTLRK RSSKIYFRNP MAENSKFFKK HGIRNGINPA MYQSPMRLRS STIQSSSII LDTLLLTENE GDKTEEQVSY V</p> <p>accgcgcga ggtaggcgct ctggtgcttg cggaggacgc ttccttcctc agatgcaccg A atcttccga tactgccttt ggagcggcta gattgctagc cttggctgct ccatggcct gccttgccc ttacctgcg attgcatatg aactcttctt ctgtctgtac atcggtgtcg tcggagtcgt cgcgatcgtc gtggcgctcg tgtgatggcc ttcgctccgt tagagtagtg tagttagtta ggggccaaac aagaagaaag aagacgcgat tagtgacag atgctggagg tggtcagtta ctaagctaga gtaagatagc ggagcgaata gagccaaac tagccggggg gcgcacggtc acccaaaaga ggtcgactcg ccggcgcttc ctatcgccgc gagctccctc cattcctctc cctccgcga ggcgcgaggt tgcggcgcc agcgcagcc agctcagcc accgactgcc gcgggctccg ctggcgcttg gttctctcc cgcgcgagt ccgtttctcg tctagctgcc gcgcgaggca cgcgtgcttg gttctctcc cggacgctag tgggttatca gctaacacc gcgagcatct ataacatag ccaactgacg ccatccttca aaaaacta aagatgata tgatgaacct agcctgttaa ttctgcttc tcaattttaa acttgggtt cttaaagactg aagcaatcat ggtgaacctg aggaatgcgg tgcattcatt ccttgtgcac ctaattggcc tattgggttg gcaatgtgat atttctgtga gccacgtagc agctatagta actgacattt tcaatacctc cgatggtgga cgcctcaaat tcccagacgg ggtacaaaac tggccagcac tttcaatcgt catcataata atcatgacaa taggtggcaa catcctgtg atcatggcag taagcatgga aaagaaactg cacaatgcca ccaattactt cttaatgtcc tagccattg ctgatatgct agtgggacta cttgtcatgc cctgtctct cctggcaatc ctttatgatt atgtctggcc actacctaga tatttgtgccc cgtctggat tcttttagat gttttatttt caacagcgtc catcatgcac ctctgcgcta tatcgctgga tgggtatgta gcaatacgt atcctattga gcatagcgt ttcaattcgc ggactaaggc catcatgaag attgctattg tttgggcaat ttctataggt gtatcagttc ctatccctgt gattggactg agggacgaag aaaaggtgtt cgtgaacaa acgacgtgcg tgctcaacga cccaaatttc gttcttattg gttcccttct agctttcttc ataccgctga cgattatggt gattacgtat tgcctgacca tctacgttct gcgcgcgaaa gctttgatgt tactgacgg ccacaccgag gaaccgcctg gactaagtct ggatttccctg aagtgcctga agaggaatac ggccgaggaa gagaactcctg caaaccctaa ccaagaccag aacgcacgcc gaagaaagaa gaaggagaga cgtccctagg gaaccatgca ggctatcaac aatgaagaa aagcttcgaa agtccctggg attgttttct ttgtgtttct gatcatgtgg tgccattttt tcattaccaa tattctgtct gttctttgtg agaagtcctg taaccataag ctcatggaaa agcttctgaa tgtgtttgtt tggattggct atgtttgttc aggaatcaat cctctgtgtg tactctgtt caacaaaatt taccgaagg cattctccaa ctatttgcgt tgcaattata aggtagagaa aaagcctcct gtcaggcaga ttccaaagat tgcgcgccct gctttgtctg ggaggagat taatgttaac atttatcgcc ataccaatga accggtgatc gagaagcca ggacaaatga gcccggtata gagatgcaag ttgagaattt agagttacca gtaaatccct ccagtgtggt tagcgaagg attagcagt tgtgagaaag aacagcacag tcttttcccta cgggtacaag tacatatgta ggaataattt cttctttaat ttttctgttg gtcttaacta atgtaaatat tgctgtctga aaaagtgtt</p> | Homo sapiens |
|----|-----|--------------------|-----------|--|-----------------|

ttacatatag ctttgcaacc ttgtacttta caatcatgoc tacattagtg agatttaggg
ttctatattt actgtttata ataggtggag actaaactat tttgattgtt tgatgaataa
aatgtttatt ttgtctctcc ctccctctt ttctcttctt ttctcttctt ttctctctt
ctctcttctt ttgtgcatg ttgcaacgtt catgttccat ttggtggca tttgeaggtg
accagaatga ggcacatgac agtggttata tttaaacac actaaatta acaaatlcag
tggacatttg ttctgggtta acagtaata tacactttac atcttgctc tgcctcatga
cacatataaa cacagtaaga taggttctgc ttctgtatc atctgtcagt gagtgcagag
cagaacctag tcttgttgtt catatagggg caaaaatttg acattgtcag aatgttgtgt
tgggtattac tgcaatgtct gtccttaaac atagtgggtat tttaacatag cagctggtta
accgggacta cagaagtga aggataatga gatgtaatc accaaatagc ttctcacttc
ttaaggacag tgttcaaat ctgattatta caacaagcaa actgaaatta cctgttctcat
tctgttctct agtaaatctc taattctatg attaaactgg gaaatgagat cgcagagtta
tttcccaacc caggattcaa catcaatttg gtttggatct cagcatcctg gaaatttgg
tgcttcacac aaagtgaat tagtattttg agccttatta aaatttttc ttaattatgg
tacctctgtc tataggactt aatttagcag tccatttttg agtaaaactt gtatggaaag
tatagatggt agaaacttgg gaagttttac ttgattaaag actacagaat tgggccccta
gaatgtgaaa aaaaaagta attaaaaaga cacttttacc gaactcggga ttacagaac
acggagtctt catttggatt ttaacaaaaa tttatgtcat tttcagatcc ttccaaactc
tctagtgcag gaaaaggctg cagctaattt gtgaaagtgg caagctcttc attgcactgc
agttatttac cagaagttta aatctttgtt aaaatatagt gttgtgttac aataagtgtt
ggccatcatt tcatctgttg gcctgctgct ctctaagaat tcagtagcat tttaatagtt
tctaaacctt gaaaagtgtt caagcattgc taaagtcagg ccatcagtc tatgtgtgt
gcagagtata caagtgttct tagtaacagt atttccatc gtgcccatt cacacaactg
tggataaatt ttggaagaat tcatgatgct agttcttacg cttgacagtt acttacacac
ctgagaatgt gccctcctcagt atcttaaat ttggttaatga aaaatctgaa tttctaaaac
ccttggcttg tttctcctaac acacagctata gataaatcca atagtctgcc acaagggcag
tggaaagact gctgtatttg aggaactca tacagtctct atttgatttg caacactggc
caaacatcag tcaattgtct gagcatgcc aatatattaca tgaagtcaa gtcctacctgc
cttgcctgtt aggtctgttg aagtgcagt taaaataaatt atatgaagca gaatgagatg
atttaattct taccgaaatg aaaatggctg aagaaacaca gcattgcattt agcatgagtt
ctgcacatac agatgtgtgtc ctgcattgat gccattgatg ttgcatgaat ccatcgattt
gtattaatgt agggcagaat agctgataga agaaagactg aagaaaatcc ttcagcaatc
cttaaaaaaga ccatgcattc agatctgaag tagtgtagtt gttagaaaaa actggaaaaa
tctgatttct gaactatcag ggcaagctca tagcacatgt tttaaaaaa acaaaaatat
aaatcacaga ttccaaaaag tactagcaat agttgaatg ataatagtc acagcacatt
tgtaaatgat tcttgtgtca tcaagtatga tgcagttttg tatgaaacaa atatactcat
cctcaagtgg tgtgtcttc tcaagtcttg tgaagtctg tgcagttttg atatactcat
ttggatataa atcttaacct tcaatgttaa atctcaaac tttataaat gttttaaaga
agtccatgtg ataattgtaa aggtgatgaa tttaccatca acaaatcat tttgatgtat
tattatatat gtatatctgt gtaagacacg tgcaacagac tgccttatat tattttctgt
aattcttctc ctttgcataa ttgtattttt ttggaatggt tgcaaatggt tgtcttattc

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|----|-----|--------------------|-------------|--|-----------------|
| 16 | 134 | 5-HT2C Receptor | NP_000859.1 | ctaatctctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaatg tgaataaaa aaaaaaaa aaaa MVNLRNAVH FLVHLIGLLV WQCDISVSPV AAIVTDIFNT SDGGRFKFPD GVQNPALSI P VIIIIMTIGG NILVIMAVSM EKKLHNATNY FLMSLAIDM LVGLLVMPLS LLAILYDYVW PLPRYLCPVW ISLDVLFSTA SIMHLCAISL DRYVAIRNPI EHSRFSRRTK AIMKIAIWA ISIGVSVIP VIGLRDEKV FVNNTTCVLN DNFVLTGSE VAFIPLTIM VITYCLTIYV LRRQALMLH GHTEPPGLS LDFLKCKCRN TAEENSANP NQDONARRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPFFIT NILSVLCEKS CNQKIMEKLL NVFVWIGYVC SGINPLVYTL FNKIYRRAFS NYLRCNYKVE KKPPVROIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPVNPSSV VSERISSV cggtgcttat ttctgtaat ggacaaactt gatgctaag tgagttctga ggagggtttc A gggtcagtg agaaggtggt gctgctcacg tttctctcga cggttatcct gatggccatc ttggggaaac tgctggtgat ggtggctgtg tgctgggaca ggcagctcag gaaaaataaa acaaattatt tcatgtatc tctgtctttt gctggtatgc tgggttcggt gctggtgatg cccttggtg ccattgatc ggttcaagac atctggattt atggggaggt gttttgtctt gtcggagat cctggacgt cctgtcacac acggcatcga tttttcacct gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc cctctgcga tgcattaat gctgggagge tgctgggtca tccccacgtt tatttctttt ctccctataa tgcaagctg gaataacatt ggcataattg attgataga aaagaggaa ttcaaccaga actctaact tactactgt gtcttctcga tcaacaagcc ctacgccatc acctgctctg tgggtgacct ctacatccca tttctctcga tgggtgctgc ctattaccgc atctatgtca cagtaagga gcatgcccc cagatccaga tgttacaacg ggcaggagcc tctctcgaga gcaggcctca gtcggcagac cagcatagca ctcacgcag gagacagag accaagcag ccaagacct gtcacatc atgggttgcct totgcctctg ctgggcacca ttctttgtca ccaatattgt ggtacctttc atagactaca ctgtccctgg gcagggtgtg actgcttcc tctggtcgg ctatatcaat tccgggttga acccttttct ctacgccttc ttgaataagt ctttagacg tgccttctc atcatcctc gctgtgatga tgagcgtac cgagacctt caattctgg ccagactgtc cctgttcaa ccacaacct taatggatcc acacatgtac taaggatgc agtgagtggt ggtggccagt gggagagtca gtgtcacccg ccagcaactt ctctttggt ggtgctcag cccagtga cttaggcccc tgggacaatg accagaaga cagccatgcc tccgaagag ggcagggtcc taagctgctg ctgtgctg actgcacccg gcattctctt cactgagge tttccgtccg ccagtgcagg aaccgggtgc tcgtggg | Homo sapiens |
| 17 | 136 | 5-HT4 Receptor | NM_000870 | cggtgcttat ttctgtaat ggacaaactt gatgctaag tgagttctga ggagggtttc A gggtcagtg agaaggtggt gctgctcacg tttctctcga cggttatcct gatggccatc ttggggaaac tgctggtgat ggtggctgtg tgctgggaca ggcagctcag gaaaaataaa acaaattatt tcatgtatc tctgtctttt gctggtatgc tgggttcggt gctggtgatg cccttggtg ccattgatc ggttcaagac atctggattt atggggaggt gttttgtctt gtcggagat cctggacgt cctgtcacac acggcatcga tttttcacct gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc cctctgcga tgcattaat gctgggagge tgctgggtca tccccacgtt tatttctttt ctccctataa tgcaagctg gaataacatt ggcataattg attgataga aaagaggaa ttcaaccaga actctaact tactactgt gtcttctcga tcaacaagcc ctacgccatc acctgctctg tgggtgacct ctacatccca tttctctcga tgggtgctgc ctattaccgc atctatgtca cagtaagga gcatgcccc cagatccaga tgttacaacg ggcaggagcc tctctcgaga gcaggcctca gtcggcagac cagcatagca ctcacgcag gagacagag accaagcag ccaagacct gtcacatc atgggttgcct totgcctctg ctgggcacca ttctttgtca ccaatattgt ggtacctttc atagactaca ctgtccctgg gcagggtgtg actgcttcc tctggtcgg ctatatcaat tccgggttga acccttttct ctacgccttc ttgaataagt ctttagacg tgccttctc atcatcctc gctgtgatga tgagcgtac cgagacctt caattctgg ccagactgtc cctgttcaa ccacaacct taatggatcc acacatgtac taaggatgc agtgagtggt ggtggccagt gggagagtca gtgtcacccg ccagcaactt ctctttggt ggtgctcag cccagtga cttaggcccc tgggacaatg accagaaga cagccatgcc tccgaagag ggcagggtcc taagctgctg ctgtgctg actgcacccg gcattctctt cactgagge tttccgtccg ccagtgcagg aaccgggtgc tcgtggg | Homo sapiens |
| 18 | 136 | 5-HT4 Receptor | NP_000861.1 | MDKLDANVSS EEGFGSEKV VLTFLLSTVI LMAILGNLLV MVAVCWDRQL RKIKTNYFIV P SLAFADLLVS VLVNPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTASIFH LCCISLDRY AICCPQVYR NKMTPLRIAL MLGCGWVPT FISFLPIMQG WNNIGIIDL I EKRKFNQNSN STYCVFMVWK PYAITCSVA FYIFLLMVL AYRIYVTAK EHAHQIQLQ RAGASESRP QSADQSTHR MRTETKAAT LCINGCFCL CWAPFFVNI VDPFIDYTPV GQVWTAFLWL GYINSGLNPF LYAFLNKSR RAFLIILCCD DERVRPSIL GQVTPCSTTT INGSTHVLRD AVECGQWES QCHPPATSPL VAAQPSDT cccgagagcg cceattcacc cccctcacc acctccccg gttcccactt ccccgactc A | Homo sapiens |
| 19 | 138 | 5-HT6 | NM_000871 | cccgagagcg cceattcacc cccctcacc acctccccg gttcccactt ccccgactc A | Homo |

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|-----|----------|-------------|-------------------|---|-----------------------|
| 20 | Receptor | NP_000862.1 | 5-HT6 Receptor | <p> tgaccggcc ggagccccc cccatattt gccgccgcc cctccagg ggctctgtc ccaccagg gagccatcc gacctctgt tgaattccc cagttcctt caggggctc ggctcatgg gtgccctcc ccaacttcc aaccgtttg ctccaggagt tctgcccc tcccagggg cgccaaaata gccacctgt gtctctctg agtgcgcc cctgacct gcgcgaccca ggcggccgc ccatgtccc ccactacct cccgggggg cgtgtgtgag tcgcggtctg ttctacgga cgggtcccg ccagcctgg ctgcgggg gccctcatc gctttccgc caccatata ctcccttgc gtccacctc ggtcctcatg gtccagagc cggggccaac cgtcaatag acccgccct gggggggaagg gccgcctg gcccggggg gcagcgctg ggtggcgcc gcctgtgcg tggcatcgc gctgacggg gcggcaaat cgtgtctgat cgcgtctat tgcactcgc ccgcgtgog caacacgtcc aactttctc tgggtctcgt cttcacgtct gacctgatg tgggtgtgg cgcggcgct tggatgccc tgaacgcct gtacgggccc tgggtgctg gccgccctc tcaacctatg cctcatcgc tcgacgtgat gtgtgcag gccctcatc agtgcctat gacgcccc cgtgccccg acctgctcat cctctgcgc cgtgcctac agtgcctat gacgcccc cgtgccccg cctagtctt gggcgccgg agcctgcgc ctctgcctc ctctgcctc cgtgccccg gctggcaga gctgggccc gcacggccc cctgcctgg ccagtgcgc cgtgtggcc gctgccttt tgccttctg gcgtggggc tcactctct cctgccccg ggtgccat gctcaccta ctgcaggat ctgttagtg ccgcgaagca ggccgtgag gtggcctccc tcaccacgg catggccagt caggcctcgg agcgtctga ggtgccagg accccagcc cagggggga gctgctgac agcaggctc tagccagaa gcacagcag aaggccctga aggccagct gacgtggc atcctgttg gcatgtctt tgtgacctg ttgccccct ttgtggcaa catagtccag gccgtgtgc actgacttc cccaggcctc ttgatgtcc tcacatgct ggttactgt aacagacca tgaacccat catatacca ctcttcacg gggactcaa gcggcgctg ggcatgtcc tgcctatgac agctgtccc cggagagcc aggccagct gccctgcca tcaatgcga ccttcacag cggcccccg cccggcctta gctacagca ggtgctgcg ctgccctgc cgcggactc agattcggac tcagacgag gctcaggcg cctctgggc ctgcggctca cggccagct gctgcttct ggcgagcca cccaggacc cccgtgccc accagggcc cgcgccccg ccaattctt aacatcgacc ccgcggagcc cagctgcgg ccgcatccc ttggcatccc cagaaactga cccgggctg gggctggcca atggggagct ggattagca gaaccagac cctgagctc tgggccagct cttggctaag accaggagg tgaagtctc tagaagccc tctgagctc agaggggtg gcagagctga cccctgctg ccatctccag gcccttacc tgcagggatc atagtgtc caga </p> | <p> sapiens </p> |
| 138 | Receptor | NP_000862.1 | 5-HT6 Receptor | <p> caga </p> | <p> Homo sapiens </p> |
| 20 | Receptor | NP_000862.1 | 5-HT6 Receptor | <p> MVEPGPTAN STPAWGAPP SAPGSGWA AALCVIALT AAANSLIAL ICTQPALRNT P SNFFLVSLFT SLMVGLVWM PFAMNLALYG RWVLARGLCL LWTAFDMCC SASILNLCIL SIDRYLLILS PLRYKLRTMP LRALALVIGA WSLAALASFL PLLLGHHELH HARPPVPGQC RLASLPEVL VASGLTFFLP SGAICFTYCR ILLAARKQAV QVASLTGTMA SQASETLOVP RTPRPGVESA DSRRLATKHS RKALKASLTL GILLGMEFVT WLFFVANIY QAVDCISPG LFDVLTWLG YCNSTMNPIY PLFMRDFKRA LGRFLPCPRC PRERQASLAS PSRLTSHSGP RPLSLQQLV PLPLPPDSDS DSDAGSGGSS GLRLTAQLLL PGEATQDPPL PTRAAAVNF FNIDPAEPPEL RPHPLGIPTN </p> | <p> Homo sapiens </p> |

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|----|-----|--------------------------|-------------|--|-----------------|
| 21 | 139 | 5-HT7 Receptor | NM_000872 | <p>ccatgggag cgacacacgg cggcgcatg atggacgtta acagcagcg cgcccgagac A</p> <p>ctctacggc acctcgcctc ttctctctg ccagaagtgg ggcgcgggt gcccgacttg</p> <p>agccccagc gtggcgccga cccggctcg ggtcctctgg cgcgcacact gctgagcgag</p> <p>gtgacagcca gcccgcgcc cactgggac gcgcccccg acaatgcctc cggctgtggg</p> <p>gaacagatca actacggcag agtcgagaaa gtgtgatcg gctccatcct gacgctcatc</p> <p>acgctgctga cgatcgcggt caactgcctg ttggtgatct cgtgtgctt cgtcaagaag</p> <p>ctcgccagc cctccaaacta cctgatcgtg tccctggcg tggccgacct ctcggtggct</p> <p>gtggcggtca tgcctctcgt cagcgtcac gacctcatg ggggcaagt gatctttgga</p> <p>cacttttct gtaatgtctt catcgccatg gacgtcatg gctgcacgc ctcgacatg</p> <p>acctgtgcg tgatcagcat tgacaggta cttgggatca caaggcccc cacaacctt</p> <p>gtgaggcaga atgggaaatg catggcgaag atgattctct cctgtggct tctctccgc</p> <p>tccatcacct tacctccact ctttgatgg gctcagaatg taaatgatga taagggtgctg</p> <p>ttgatcagcc aggaacttgg ctatacgatt tactctacc cagtggcatt ttatcccc</p> <p>atgtccgtca tgccttttcat gtactaccag atttacaagg ctgccaggaa gagtgtgctg</p> <p>aaacacaagt ttcctggctt cctcagatg gagccagaca cgtcatcgc cctgaatggc</p> <p>atagtgaag tcagagaaga ggtggaagag tgtgcaaac tttcgagact cctcaagcat</p> <p>gaaaggaaa acatctccat ctttaagcga gaacagaaa cagccaccac cctggggatc</p> <p>atcgtcgggg cctttaccgt gtgctggctg ccatttttcc tctctcgac agccagacc</p> <p>ttcatctgtg gcacttcctg cagctgcac cactgtggg tggagaggac atttctgtg</p> <p>ctaggctatg caactctct cattaacctt ttatatatg ccttcttcaa cgggacctg</p> <p>aggaccact atcgacgct gtccagatgc cagtaccgga atatacccg gaagctctca</p> <p>gctgcaggca tgcataagc cctgaagctt gctgagaggc cagagagacc tgagtttctg</p> <p>ctacaaaaatg ctgactactg tagaaaaa ggtcatgatt catgattgaa agcagaacaa</p> <p>tgagag</p> | Homo sapiens |
| 22 | 139 | 5-HT7 Receptor | NP_000863.1 | <p>MDVNSSGRP DLYGHLRSFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPATW P</p> <p>DAPPDNASGC GEQINYGRVE KVVIGSILTL ITLLTIAGNC LVVISVCFVK KLRQPSNYLI</p> <p>VSLALADLSV AVAVMPFVSF TDLIGGKWF GHFFCNVFLA MDVMCCTASI MTLCVISIDR</p> <p>YLGITRPLTY PVRQNGKCMV KMILSWLLS ASITLPLFG WAQNVNDDKV CLISQDFGYT</p> <p>IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHKFPGFPR VEPDSVIALN GIVKIQKEVE</p> <p>ECANLSRLK HERKNISIFK REQKAATLIG IIVGAFTVCW LPFFLLSTAR PFICGTSCSC</p> <p>IPLWVERTEL WLGYANSLIN PFYAFNRD LRTYRSLLQ CQYRNINRKL SAAGMHEALK</p> <p>LAERPERPEF VLQADYCRK KGHDS</p> | Homo sapiens |
| 23 | 272 | Adenosine A1 Receptor | NM_000674 | <p>atgagtgta gaagtgtgaa ggtgctgtg tctgaatccc agagcctcct ctccctctgt A</p> <p>gagctggca ggtgaggaag ggtttaacct cactggaagg aatccctgga gctagcggct</p> <p>gctgaaggcg tcgaggtgtg ggggcaactg gcagaaacag taaggacgc gggagctctg</p> <p>ccagctttgg tgaccttggg cgggcttgg agcgtctcgg cgggagcccg aggaactatga</p> <p>gctgcgcgc gttgtccaga gccagccca gccctacgc cgcggcccg agctctgttc</p> <p>cctggaactt tgggcaactgc cctgggacc cctgcggcc agcaggcagg atggtgtctt</p> <p>cctcgtgcc cttggtgccc gtctgtgat gtgcccagc tgtgcccgc atgcgcctt</p> <p>ccatctcagc ttccaggcc gccatcatc gctcagagt gctcatgcc ctggtctctg</p> <p>tgccccgga cgtgctgtg atctggcggtg tgaaggtgaa ccaggcgctg cgggatgcca</p> | Homo sapiens |

ccttctgctt catcgtgtcg ctggcggtgg ctgatgtggc cgtgggtgcc ctggtcatcc
 cctcgccat cctcatcaac attgggccac agacctactt ccacacctgc ctcatggttg
 cctgtccggt cctcatctc accagagct cctcctggc cctgctggca attgctgttg
 accgtacct ccgggtcaag atccctctc ggtacaagat ggtggtgacc ccccgaggg
 cggcggtggc catagccggc tgcgtgacc tctccttctg ggtggactg accctatgt
 ttggtggaa caatctgagt ggggtggag gggcctggc agccaaaggc agcatgggg
 agccgtgat caagtgcag ttcgagaagg tcatagcat gtagtacctg gtctacttca
 acttcttctg gtgggtgctg ccccgcttc tctcatggt cctcatctac ctgaggtct
 tctacctaat ccgcaagcag ctcaacaaga aggtgtcggc ctccctggc gaccgcaga
 agtactatgg gaaggagctg aagatgcaca agtgcctggc cctcatctc tctctcttg
 cctcagctg gctgccttg cacatctca actgcatac cctctctgc cgtcctgccc
 acaagccag catcctacc tacattgcca tcttctcac gcacggcaac tcggccatga
 acccattgt ctatgcctc cgcatacaga agttccgct cacttctt aagatttga
 atgaccattt ccgctgccag cctgcacct ccatgaaga ggtatccca gaagagaggc
 ctgatgacta gaccgcgct tccgctcca ccagccaca tccagtgggg tctcagtcca
 gtctcacta gcccgtgtc ccagggtct cccagagct gcttccct cactaggagt
 tgggggcatg ggggagctc tgaagagata cccacagat gggcaagggt cctacggagg
 taactacct acacctctg gccctgcagg aggcctggga agccctgacca tcccatgagc
 gaccaggtgt ctaggagcaa cagtgtctg ggcaggtct gggagagctg agactgcaga ggaagccact
 agtcagcgc ttcagggtcg ggcaggtct ggttctgct gtgagcagg gtagtctgct tgtcttagat
 gggctgggag aaggtgcttg cagcccaagg accaagctta aggagaggag agcatctgct ctgagacgga
 gttggtgtg cagcccaagg atgcactggc ctgttctgta gtagagactg gccagaggca
 tgaagaggga gaggttgagg agcctcctc tcccactct gagactctg gaccacaggc
 gctaaagggc aggaatcaag gacccctcct cgcctcctc tgcctgggc cagccaggga ttgtactgtg
 cataccaggt gctagggtgc ctgctctct tgcctgggc cagccaggga ttgtactgtg
 gagaggcaga aaggttaggt tcagtaatca tttctgatga tttgctggag tgcctgctcc
 acgcccctgg gagttagctt ggtgcggtag gtgctggcct caaacagcca cgaggtggtg
 gctctagacc tctctcttg cctgagctt tccggggagg agcctggagt gtaattacct
 gtcatctgg ccaccagct cactggcccc cgttgcctgg gtaggactgt cctaggtgac
 cccatctctg ctgcttctg gcctgatgga gagagaaca ctgacatgc caactcggga
 gcattctgcc tgcctgggaa cggggtggac gagggagtgt ctgtaaggac tcaagtgtga
 ctgtaggcgc cctggggtg ggttagcag gctgcagcag gcagaggagg agtaccctcc
 tgagagcatg tgggggaaag ccttgcctg atgtgaatcc ctcaatcccc ctagtatctg
 gctgggtttt caggggctt ggaagctctg ttgaggtgt cggggggtct aggactttag
 gtagctggga tctggggaag gaccaacca tgcctgcca agcctggagc cctgtgttg
 gggggcaagg tgggggagcc tggagcccc tgtggggagg gcgagggcgg gtagcctgga
 gcccctgtgt gggagggcga ggcgggggat cctggagccc ctgtgtcggg gggcgaggga
 ggggaggtgg ccgtcggttg acctctgaa catgagtgc aactccagg ctgtcttcca
 agccctccc tctgttggaa attgggtgtg cctggctcc caaggaggc ccatgtgact
 aataaaaaac tgtgaacctt

| Receptor | Adenosine A2a Receptor | 273 | 225 | sapiens |
|--|------------------------|-----|-----|---------|
| LVIPLAILIN IGPQTYFHTC LMVACPVLIL TQSSILALLA IAVDRYLVRK IPIRYKMVVT | Adenosine A2a Receptor | 273 | 225 | sapiens |
| PRRAAVAIAAG CWILSFVVGL TPMFGWNLS AVERAWAANG SMGEPVIKCE FEKVISMMEYM | | | | |
| VYFNFFVMVL PPLLMLVLIY LEVFYLIRKQ LNKRVSSASSG DPQKYIGKEL KIAKSLALIL | | | | |
| FLFALSWLPL HILNCITLFC PSCHKPSILT YIAIFLTHGN SAMNPVIYAF RIQKFRVTEFL | | | | |
| KIWNDFHRCQ PAPPIDEDLP EERPDD | | | | |
| tttgcagggt cctcaggaaac cctgaagctg ggctgagcca tgatgtgtgt gccagaaccc A | Adenosine A2a Receptor | 273 | 225 | sapiens |
| ctgcagaggg cctggtttca ggagactcag agtcctctgt gaaaagccc ttggagagcg | | | | |
| ccccagcagg gctgcacttg gctcctgtga ggaaggggct cagggtgtctg. ggccctcccg | | | | |
| cctgggccgg gctgggagcc aggcggcggg ctgggctgca gcaatggacc gtgagctggc | | | | |
| ccagcccgcg tccgtgtctga gctgctgtgt cgtctgtggc catgccatc atgggtctct | | | | |
| cggtgtacat caggtgtggag ctggccattg tctgtgctgg cactctgggc aatgtgtgtg | | | | |
| tggtctgggc cgtgtggctc aacagcaacc tgcagaacgt caccactac ttgtgtgtgt | | | | |
| cactggcggc ggccgacatc gcagtgggtg tgctgccat cccctttggc ataccatca | | | | |
| gcaccgggtt ctgcgctgcc tgccacgggt gcccttcat tgctgtcttc gtctgtgtcc | | | | |
| tcacgcagag ctccatcttc agtctcctgg ccactggccat tgaccgtac attgccatcc | | | | |
| gcatcccgct ccggtacaat ggcttggtag ccggcacgag ggctaagggc atcattgcca | | | | |
| tctgtctgggt gctgtcgttt gccatcgccc tgactcccat gctaggtttgg acaactgctg | | | | |
| gtcagcctaaa ggagggtcaag aaccactccc agggcttcgg ggagggtcaa gtggcctgtc | | | | |
| tctttgagga tgtgttcccc atgaactaca ttggttactt caacttcttt gctgtgtgtc | | | | |
| tggtgcccc gctgtctatg ctgggtgtct atttgctgat ctctctggcg gcgcagcgac | | | | |
| agctgaagca gatggagagc cagcctctgc cggggggagcg ggcaeggtcc acactgcaga | | | | |
| aggaggtcca tgctgccaag tcactggcca tcattgtggg gctctttgcc ctctgtgtggc | | | | |
| tgccccata catcatcaac tgcttcaact tcttctgcc cgaactgcag cagcgcctc | | | | |
| tctgtgtcat gtacctggcc atcgctctct cccacaccaa ttcggttgtg aatcccttca | | | | |
| tctacgccta ccgtatccgc gagtccgc agacttccg caagatcatt cgcagccacg | | | | |
| tcttgaggca gcaagaacct ttcaaggcag ctggcacccag tgccccgggtc ttggcagctc | | | | |
| atggcagtag cggagagcag gtcagcctcc gtctcaacgg ccaccgccca ggagtgtggg | | | | |
| ccaaaggcag tgctcccc cctgagcgga ggcccaatgg ctatgccctg gggctgtgtga | | | | |
| gtggaggagg tgcccaagag tccccaggga acacgggctt cccagacgtg gactcctta | | | | |
| gccatgagct caagggagtg tgcccagagc cccctggcct agatgacccc ctggcccagg | | | | |
| atggagcagg agtgtcctga tgattcatgg agtttggccc ttctaaaggg aaggagatct | | | | |
| ttatctttct ggttggcttg accagtcaag tggggagaag agagagagtg ccaggagacc | | | | |
| ctgaggggcag ccggttcccta ctttgactg agagaaagga gccccaggct cagagcagcat | | | | |
| gaggccacgc aagaagggtt tgggttctga ggaagcagat gtttcatgtt gtgagcctt | | | | |
| gcaccagggtg ggggccacag caccagcagc atctttgtct ggcagggccca gccctccact | | | | |
| gcagaagcat ctggaagcac cacttgtct ccacagagca gcttgggac agcagactgg | | | | |
| cctggccctg agactgggga gtggctccaa tagcctctctg ccaccacac accactctcc | | | | |
| ctagactctc ctagggttcca ggagctgtctg ggccagaggg tgacatttga ctttttcca | | | | |
| ggaaaaatgt aagtgtgagg aaacctttt tattttatta ctttctactc tctggctgct | | | | |
| gggtctgcgg tcggtcctgc tgctaacctt gcaccagagc ctctgcccgg ggagcctcag | | | | |
| gcagtcctct cctgctgtca cagctgccat ccacttctca gtccccgggc catctcttgg | | | | |

| | | | | | |
|----|-----|---------------------------|-------------|---|-----------------|
| 26 | 273 | Adenosine A2a Receptor | NP_000666.2 | MPIMGSSVYI TVELAIAVLA ILGNVLVCWA VMLNSNLQNV TNYFVVSLLAA ADIAVGVLAI P PFAITISTGF CAACHGCLFI ACFLVILTQS SIFSLALAI DRYIAIRPL RYNGLVGTGR AKGIIAICWV LSFAIGLTPM LGWNCGQPK EGNHSQCGG EGQVACLIED VPMNMYVF NFAFVLVPL LMLGVYLRI FLAARRQLKQ MESQPLPGER ARSTLQKEVH AAKSLAIIVG LFALCWLP LH IINCFTFFCP DCSHAPILWM YLAIVLSHTN SVNPFYIAY RIREFRQTFR KIIRSHVLRQ QEPFKAAGTS ARVLAHGS D GEQVSLRLNG HPPGVWANGS APHPPERPNG YALGLVSGS AQESQNTGL PDVELLSHEL KGVCPEPPGL DDPLAQDGAG VS | Homo sapiens |
| 27 | 274 | Adenosine A2b Receptor | NM_000676 | agtgacaaaag ctgggatcaa ggataggag ttgtaacaga gcagtggcag agcatgggccc caggtcccaag gggagaggtt ggggctggca ggccactggc atgtgctgag tagcgcagag ctaccagtg agaggccttg tctaactgcc ttctctcta aagggaaatgt tttttctga gataaaaataa aaacgagcca catcgtgttt taagcttgtc caaatgaaaa aaaaaaaaa aaa gggcaatttg ttagttatcc gccgccacca agacgcggca cggcgctgg accggagggg A ccccgcggg gcgcgaactt tgggctcggg cgagtgggtg gtgctcggc cagcccgaga cggggcgggc gcggggcca tgggtgcgc cttctggcgg cggggggccc cgaccctgg gtcccgcca ccagcggccc agccccagg ctagcgaagg gcaggcgag gcgcgtccg ggcgctatgg ccattgcccc cgggtctcac cggctgccc ctgcgccgg cgccctcgg tagggggcgc ccggggccca gctggcccgg ccattgctgt ggagacacag gacgcgtgt acgtggcgct ggagctgttc atgcgcggc ttctggtggc gggcaacgtg ctggtgtgctg ccgcggtggg cagggcgaa actctgcaga gcgccacaa ctactctgt gtgtccctgg ctgcggcga cgtggccgtg gggctcttcg ccaccctt tcctgctgt gtgctcacgc gcttctgca tgaactctac ggctgctct ctccctcgg ctagtcagc atacctggcc atctgtgtcc agagctccat cttcagcctt ctggccgtgg cagtcagac aggtgtcatt gctgtctct cgctcagga taaaagtgt gtcacgggga cccgagcaag aggggtcatt gctgtcctct gggtccctgc ctttggcgc ggattgact cctctctgg gtggacagt aaagacagt ccaccaaaa ctgcacagaa cctgggatg gaaccagaa tgaagctgc tgccttgtga agtgtctct tgagaaatgt gtccccatga gctacatggt atatttcaat ttctttgggt gtgtctgccc cccactgctt ataagtctgg tgatctacat taagatcttc ctggtggcct gcaggcagct tcagcgcact gagctgatgg accactcag gaccacctc cagcgggaga tccatgcagc caagtccact gccatgatgg tggggatttt tggcctgtgc tggttacctg tgcattgctg taactgtgtc actcttttc agccagctca gggtaaaaa aagcccaagt gggcaatgaa tatggccatt cttctgtcac atgccaattc agtgtcaat cccattgtct atgcttaccg gaaccgagac ttccgctaca cttttcaca aattatctcc aggtatcttc tctgccagc agatgtcaag agtgggaatg gtcagctgg ggtacagcct gctctcgtg tgggacctatg atctagctc tgcctcttc caggagaaga tacaatcca caagaaacaa agagacacg gctggttttc attgtgaaag atagctacac ctcaacaga aatggactgc ctctcttgag cacttccctg gagctaccac gtatagct aatatgtatg tgtcagtagt aggctccaag gattgacaaa tatatttatg atctattcag ctgcttttac tgtgtggatt atgccaaacg cttgaaatgga ttctaacaga ctctttgtt tttaaaagtc tgccttgtt atgggtgaaa attactgaaa ctattttact gtgaacagc gtgaactatt ataatgcaaa tactttttta cttagaggca atgaaaaaat aaaagtgtgac tgtactaaaa atg | Homo sapiens |

Homo sapiens

28 274 Adenosine NP_000667.1 MLETDALY VALELVIAL SVAGNLVCA AVGTANTLOT PTNYFLVSLA AADVAVGLFA P
IPFAITISLG ECTDFYGLF LACFVLVLTQ SSIFSLAVA VDRYLAICVP LRYKSLVTGT
RARGVIALW VLAFIGLTP FLGWSKDSA TNNCTEPWDG TTNESCCLVK CLFENVVPM
YMYFNEFGC VLPPLIMLV IYIKIFLVAC RQLQRTLEMD HSRITLQREI HAAKSLAMIV
GIFALCWLPV HAVNCVTLFQ PAQGNKPKW ANMMAILSH ANSVNPIVY AYRNRDRFYT
FKIISRYLL QQADVKSNG QAGVQPALGV GL

Adenosine A2b Receptor

Homo sapiens

29 275 Adenosine A3 NM_000677
Receptor
atctttgctg caaaggtctg gctatggctg tgctcagcaa agcgtcaact cgtgcaagaa A
cttagcagga atagttctgg ctaaggttag gaggtgcca ccaagtcctc tttttgttc
ctctgctct cccgtttgcc tcttatcat gagatcttt tgtaagctg gcagaaagat
tgcatagtca gtgcttccag ctctgctccc acctgacct gcactgtcct ctggtccctg
aatgaatgaa ctctgatacc caatcttgct tcgagccttc tctatgccac tcatggctcc
tcttctgctc tttccatctt ttgtctgaga gttctgagct ctgtacttcc tcttgccca
tctcacttcc tgaacacccc ctgaagaggg ttgcttatct tgatggaact caaaaagcca
aaaagctgca ggcagagggc ttgaggacat ctgtttgggg aactaagagc agcagcactt
tcagattcag tccatataga gctgtcctac agcattctgg aaacttgagg atgtgctg
cataaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga aggttttcca
agagatcacc ccaccagaaa aggttaggaa tgagcaagtt gggaatttta gactgtcact
gcacatggac ctctgggaag agtctggcg agagctaggc ccactggccc tacagacgga
tcttctgctg tcacctgtcc ctgtggaggt tcccctggga aggcaatttc attgactct
gcactgctct gcaattggcc aatgttacct acatcaccat ggaaattttc attgactct
gcgccatagt gggcaacgtg ctggtcatct gcgtggctca cgtgaacccc agcctgcaga
ccaccacctt ctatttcatt gtctctctag ccttggtctg cattgctgtt ggggtgctg
tcatgcttt ggccattgtt gtcagcctgg gcatcacaat ccacttctac agctgcttt
ttatgacttg cctactgctt atctttacc agcctccat catgtccttg ctggccatcg
ctgtggaccg atacttgcg gtcaagctta ccgtcagata caagagggtc accactcaca
gaagaatag gctggccctg ggctttgtct ggctgggtgc attcctggtg ggattgacct
ccatgttttg ctggaacatg aactgacct cagagtacca cagaaatgtc accttcttt
catgccaat tgtttccgtc atgagaatgg actacatggt atacttcagc tctctcact
ggattttcat cccctgggtt gtcatgtgcg ccatctatct tgacatcttt tacatcattc
ggaacaaact cagtctgaac ttatctaact ccaagagagc aggtgcattt tatggacggg
agttcaagac ggctaaagtc ttgtttcttg ttctttctt gtttgcctg tcatggctgc
ctttatctat catcaactgc atcatctact ttaatggtga ggtaccacag cttgtgctgt
acatgggcat cctgctgtcc catgccaaact ccatgatgaa cctatcgtc tatgcctata
aaataaagaa ttcaaggaa acctaccttt tgactctcaa agcctgtgtg gctgacctc
cctctgattc ttgggacaca agcattgaga agaattctga gtagtattcc atcagagatg
actctgtctc attgaccttc agattcccca tcaacaaaca cttgagggcc tgtatgcctg
ggccaaggga tttttacatc cttgattact tccactagg tggagagcatc tccagtgtc
cccaattata tctccccac tccactactc tcttctcca ctccattttt cctttgtcct
ttctctctaa ttcaagtgtt tggaggcctg acttggggac aactattat tgatattatt
gtctgtttc ctcttccca atagaagaat aagtcattga gcctgaaggg tgcctagtgtg
acttactgac aaaagctct agtgggctg aactgtgtg tgggtgtgac tcatctccat

Adenosine A3 Receptor

| | | | | |
|----|-----|--|---|--------------|
| 30 | 275 | Adenosine A3 NP_000668.1 Receptor | gccattgtgg aattgagcag agaacctgct ctgaggagat gctagaaga tgttgggaac agaagaata aactgagttt aagggggact taaactgctg aattcacctg tggatgtttt tgagtaata aaagtaata g MPNNSTALS L ANVTYITMEI VGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P VGVLMPLAI VVSLGITIHF YSCLFMTCLL LIFTHASIMS LLAIVADRYL VRKLTVRYSR VTTHRIWLA LGLCWLVSLF VGLTPMFGWN MKLTSEYHRN VTFLSQCFVS VMKMDVMYF SELTWIFIP L VMCAIYLDI FYIIRNKLSL NLSNSETGA FYGREFTAK SLFLVLFFA LSWLP LSIIN CIIYFNGEVP QLVLYMGILL SHANSMMNFI VYAYKIKKFK ETYLLILKAC VVCPSDSL D TSIEKNSE | Homo sapiens |
| 31 | 309 | Melanocortin NM_000529 2 Receptor (adrenocorti cotropic hormone) (MC2R) | atgaagcaca ttatcaactc gtatgaaac atcaacaaca cagcaagaaa taattccgac A tgtctcctg tggttttggc ggaggagata tttttacaaa ttccattgt tggagtttt gagaatctga tgcctcctgct ggctgtgttc aagaataaga atctccaggc accatgttac ttttcatct gtagcttggc catatctgat atgctgggca gcctataaa catctggaa aatatcctga tcatattgag aaacatgggc tatctcaagc cactggcag ttttgaacc acagccgatg acatcatoga ctccctgttt gtccctccc tgcctggctc catctcagc ctgtctgtga ttgctgcgga ccgtacatc accatcttcc acgcactgcg gtaccacagc atcgtgacca tgcgcgcgac tgtggtgtg cttacgttca tctggacgtt ctgcacgggg actggcatca ccatgggtgat cttctcccat ctagtgccca cagtatcac cttcacgtcg ctgttccgc tgatgctggt cttcatcctg tgcctctatg tgcacatgtt cttcgtggct cgatcccaaca ccaggaaagt ctccaccctc ccagagcca acatgaaagg ggccatcaca ctgaccatcc tgcctggggt cttcatcttc tgcctggccc ctttgtgct tcatgtccctc ttgatgacat tctgcccagg taaccctac tgcgcctgct acatgtctct cttccaggtg aacggcatgt tgatcatgtg caatgcctgc attgacctt tcatatgct cttccggagc ccagagctca gggacgcatt caaaaagatg atctcttgcga gcagtgactg gtag MKHIINSYEN INNTARNSD CPRVLPPEI FFTISIVGL ENLIVLAVF KNKNLQAPMY P FFICSLAISD MGLSKYLE NIIILRNMG YLKPGRSFET TADDIISLF VLSLGSIFS LSVIAADRYI TIFHALRVHS IVTMRRTVV LVITWTFCTG TGITWVIFSH HVPTVITFTS LFPLMLVFIL CLYVHMFLLA RSHTRKISTL PRANKGAT LTILIGVFIF CWAPFVLHVL LMTFCPSNPY CACYMSLPQV NGMLIMONAV IDPFIYAFRS PELRDAFKKM IFCRYW | Homo sapiens |
| 32 | 309 | Melanocortin NP_000520.1 2 Receptor (adrenocorti cotropic hormone) (MC2R) | tcctgcccgc cgctcgttct gtgcccccg cccggccacc gaggccgcg cgttgagatg A actttccgcg atctcctgag cgtcagtttc gaggagcccc gcccgacag cagcgacagg ggctccagcg cgggcgcgcg cgggggcagc cggggcggcg cggccccctc ggagggcccc gcgtgtggcg gcgtgccggg gggcgcgggc gggcgcggcg cgtgtgtggg cgcaggcagc ggcgaggaca accggagctc cgcgggggag cggggcggcg cggcgcggcg cggcgacgtg aatggcacgg cggccgtcgg ggagctgggtg gtgagcgcg agggcgtgg cgtgggcgtc ttcctggcag ccttcactt tatggccgtg gcaggtaac tgcctgtcat cctcctcagt gcctgcaacc gccacctgca gaccgtcacc aactatttca tgcgtgaacct ggccgtggcc gacctgctgc tgagcgccac cgtactgcc tctcggcca ccatggaggt tctgggcttc tgggcccctt gccgcgctt ctggcagcta tggggccgcg tggacgtgct gtgctgcacg gcctccatcc ttagcctctg caccatctcc gtggaccggt acgtggcgct gcgccactca | Homo sapiens |
| 33 | 376 | Alpha 1d- adrenoceptor | | Homo sapiens |

| | | | | |
|----|---------------------------|-------------|---|-----------------|
| 34 | Alpha 1d- adrenoceptor | NP_000669.1 | ctcaagtacc cagccatcat gaccgagcgc aaggcgggccg ccatacctggc cctgctctgg gtcgtagccc tgggtgtgtc cgtagggccc cttgctgggt ggaaggagcc cgtgccccct gacgagcgt tctgcggtat caccgaggag gggggtctacg ctgtcttctc ctccgtgtgc tcttctacc tgcctatggc ggtcatctgt gtcattgtact gccgctgtga cgtgggtcgcg cgacgacca cgcgcagcct cgaggcaggc gtcaagcgcg agcgaggcaa ggcctccgag gtgtgtgtc gcatccactg tgcggcgcg ccgacgggcg ccgacgggcg gcaaggcatg cgcagcgcca agggccacac ctccgcagc tgcctctccg tgcgctgtct caagtctctc cgtgagaaga aagcgcccaa gactctggcc atcgtctgtg gtgtcttctg cctctgctgg ttccctttct tctttgtcct gcgctcggc tcttctgtcc cgcagctgaa gccatcgag ggcgtcttca aggtcatctt ctggctcggc tactcaaca gtcgctgaa ccgctctc taccctgtt ccagccgga gttaagcgc gcttctctc gtcctctgcg ctgccagtgc cgtcgtcgcg ggcgccgcg cctctctgg cgtgtctacg gccaccactg gggggcctcc accagcgcc tgcgcagga ctgcgccccg agttcgggcg acgcccccc cggagcgccg ctggccctca ccgcgtctcc cgaccccgac ccgaacccc aggcacgccc cgagatgcag gtcccggtcg ccagccgtcg aaagccacc aggcctctc gcgagtggag gctgctggg ccgttcgga gaccacgac ccagctcgc gccaaagtct ccagctgtc gcacaagatc cgcgccgggg gcgcgcagcg cgcagaggca gctgcgccc agcgtcaga ggtggaggct gtgtccctag gctcccaaca cgaggtggcc gagggcgcca cctgccaggc ctacgaattg gccgactaca gcaacctacg ggagaccgat atttaaggac ccagagcta ggcgcggag tgtctgggc ttgggggtaa ggggaccag agagcgggc tgggttctc agagccccg tgcaaatcgg agaccggaa actgatacag gcagctgctc tgtgacctc ctgaggaact ggcgagagct tgaggtgga gccctgaaa ggtgaaaaagt agtggggccc cctgctggac tcaggtgcc agaactctt tcttagaagg gagagctgc gggctccgtg gggcctttg ctcccaatcc ctatttgaga aacctgcc cctcctccat gccctgaacc ctgagtagac agcccaagc atggccagga agcctgccc SGEDNRSAG EPGSAGAGGD VNGTAAVGGI VVSAGVGVG VFLAIFILMA VAGNLIIVLS VACNRHLQTV TNYFIVNLAV ADLLSATVL PFSATNEVLG FWAFFRAFCV WAAVDVLCC TASILSLCTI SVDRYVGVVRH SLKYPAIMTE RKAAAILALL WVVALVSVG PLLGWKEPVP PDERFCGITE EAGYAVFSSV CSFYLPMAVI ARSTTRSLA GVKRERKAS EVLRIHCRG AATGADGAHG MRSKAGHTFR SLSVRLKLF SREKKAATL AIUVGVFLC WFPFFVLP GLFPOLKPS EGVFKVIFWL GFNSCVNPL IYPCSSREFK RAFLLRQC CRRRRRRRPL WRVYGHWRRA STSGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPGTPEM QAPVASRRKP PSAREWRLL GFPRPTQL RAKVSSLSHK IRAGGAQRAE AACQAQSEVE AVSLGVPEHV AEGATQAYE LADYSLNRET DI agccagagga cgtgctgcg gctggctgc ccgggggaga tgactcctgc caggaggcg A cctctgggaa gaagaccacg ggggaagcaa agtttcaggg cagctgagga gccttcgccc cagccctcc gagcccaatc atccccagg ctatgaggg cggactctaa gatgatccc gacctggaca ccggcccaaa cacatcagca cctgcccact ggggagagtt gaaaaatgcc aacttcaatg gcccacaaca gacctgagc aactccacac tgccccagct ggacatcacc agggccatct ctgtgggcct ggtgctgggc gccttctcc tctttgccat cgtggggaac | Homo sapiens |
| 35 | Alpha 1b- adrenoceptor | NM_000679 | | Homo sapiens |

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|----|---------------------------|-------------|---|--------------|
| 36 | Alpha 1b- adrenoceptor | NP_000670.1 | <p>atcctagtca tcttgtctgt ggctgcaac cggcacctgc ggacgccac caactacttc atgtcaacc tggccatggc cgacctgctg ttgagcttca ccgtccctgc cttctcagcg gccctagagg tgcctggcta ctgggtgctg gggcggatct tctgtgacat ctgggcagcc gtgcatgtcc tgtgctgcac agcgtccatt ctgacatctg gcgccatctc catcgatcgc tacatcgggg tgcgtactc tctgcagtat cccacgctgg tcacccggag gaagccatc ttggcgctgc tcaagtctg ggtctgtcc accgtcatc ccatcgggc tctccttggg tggaaaggag cggcacccaa cgatgacaag gagtgcggg tcaccgaaga acccttctat gccctcttct cctctctggg ctctcttctac atccctctgg cggtcattct agtcatgtac tgcctgtct atagtggc caagaagaac accaagaacc tagaggcagg agtcatgaag gagatgtcca actcaaggc gctgacctg aggtccatt ccaagaact tcacgaggac acccttagca gtaccaagg caagggccac aagcgttgg gcttcattgt cgttatgttc tttaagtctt ccagggaataa gaaagcagct aagacgttgg gcttcattgt cgttatgttc atctgtgct ggtaccctt ctctacgct ctccagcaag gattcaagc gcgtttcgt gcgcatctc aagcccccg agcctgtgt caagtggtg tctggctgg gctactcaa cagctgcctc aaccatca tctaccatg ctccagcaag gattcaagc gcgtttcgt gcgcatctc gggtgccagt gccggtggc cggccgcgc cgacgcgc gccgcgtcg cctggggcgc tgcgctaca cctaccgccc gggcagctgc ctgagcgca gccagggag cctgcctcg aaggactcgc tggacgacag cggcagctgc ctgagcgca gccagggag cctgcctcg gctcgccga gcccgggcta cctgggcgc ggcgcgcac gccagtcga cctgtgcgc ttccccgagt ggaaggcgc cggcgccct ctgagcctgc ccgcgcctga gcccccgcg cgccgcgcc gccacgactc gggccgcctc ttcacctca agctcctgac cgagcccgag agccccgga ccgacggcgg cgcagcaac ggaggtctcg aggccgcggc cgactggcc aacggggcag cgggcttcaa agcaacatg cccctggcgc cgggcagtt tagggcccc cgtgcgcagc ttcttctcc tggggaggaa aacatcgtgg ggggga cgtgcgcagc ttcttctcc tggggaggaa aacatcgtgg ggggga</p> | Homo sapiens |
| 37 | Alpha 1c- adrenoceptor | NM_000680 | <p>VGNILVLSV ACNRHLRTP TSAPAHWGEI KNAFTGPNQ DITRAISVGL VLGAFLFAI P WAAVDVLCCT ASILSLCAIS IDRYIGVRS LQYPTLVTRR KAILALLSW VLSVISIGP LLGWKEPAPN DDKECGVTEE PFYALFSLG KGHNPSSIA VKLFPSREK KAAKTLGIV VMKEMSNSKE LTLRIHSKNF HEDTILSTKA KVNFWLGYFN SCLNPIIYPC SSKEFKRAV GMFILCWLPE FIALPLGSLF STLKPPDAVF LGGCAYTYRP WTRGGSIER SQRKDSLDD SCLSGSQRT RILGCQCRGR GRRRRRRRRR LGGCAYTYRP WTRGGSIER SQRKDSLDD SCLSGSQRT LPSASPSPGY LGRGAPPPVE ICAFPWKAP GALLSLPAPE PPGRRGRHDS GPLFTFKLLT EPESPGTDGG ASNGGCEAAA DVANGQPGFK SNMPLAPGQF gaattccgaa tcatgtgcag aatgctgaat cttccccag cggaagaagca gattctcgtg attctggaat tgcattgtgc aaggagtctc ctggtatctc gcacccagct tcgggtaggg agggagtcgg ggtcccgggc taggcagcc cggcaggtgg agagggtccc cggcagcccc gcgcgcctt gcceatgtct ttaatgccct gcccttcat gtggccttct gaggttccc agggctggcc aggggtgttt cccaccgcg cggcgctct cacccccagc caaaccacc tggcagggt cctccagcc gagacctttt gattccccgc tcccgcgtc ccgctccgc gccagcccg gaggtggccc tggacagcc gagctcgc ggccccgct gggaccatgg tgtttctctc tccgacagct ccaactgcac</p> | Homo sapiens |

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|-----|---------------------------|-------------|--|--------------|
| 38 | Alpha 1c- adrenoceptor | NP_000671.1 | <p> ccaaccgcg gcaccgggtga acatttccaa ggccattctg ctccgggggtga tcttggggggg cctcattctt ttccgggggtgc tgggtaacat cctagtgtac ctctccgtag cctgtccacg aacctgcac tcaatcacgc actactacat cgtcaacctg gcgggtggcgc acctcctgct cacctccacg gtgctgacct tctccgccat cttcagggtc ctaggctact gggccttcgg cagggtcttc tgcaacatct gggcggcagt gcatgtgctg tgctgcaccg cgtccatcat gggctctgc atcatctcca tgcaccgta cctcggcgtg agctaccgc tgcctacct aacctatgct acccagagga ggggtctcat gggtctctgc tgcgtctggg cactctacct ggtcatatcc attggacccc tgttcggctg gaggcagcgc gcccccaggc acgagacct gtgccagatc aacgaggagc cgggctacgt gctcttctca gcgctgggct ccttctacct gctctggcc atcatcctgg tcatgtactg ccgctctac gtggtggcca agaggagag ccggggcctc aagtctggcc tcaagaccga caagtcggac tcggagcagg tgacgctccg catccatcgg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcaattctca gtgaggctcc tcaagtctc ccgggagag aaagcgcca aacgctggg catcgtggtc ggtgctcttg tctctgctg gctgctcttt ttcttagtca tggccattgg gtctttctc cctgatttca agcctctga aacgctttt aaaaatagat ttggctcgg atatctaac agtgcatac acccctcat ataccctgc tccagccaag agttcaaaaa ggcctttcag atgtcttga gaatccagt tctccgaga aagcagtctt ccaaacatgc cctgggtac accctgcacc cggccagcca ggccgtggaa gggcaacaca aggcacatgg gcgcacccc gtgggatcaa gagagacct ctacaggatc tccaagacgc atggcgtttg tgaatggaaa ttttctctt ccatgccccg tggatctgc aggtatacag tgcctaaaga ccaatcctcc tgtaccacag ccgggtgag agtataaagc ttttggagg tctgctgctg tgtagggcc tcaacccccca gccctgacaa gaacctcaa gttccaacca ttaaggtcca caccatctcc ctcagtga agggggagga agtctaggac aggaagatg cagaggaaaag gggaataatc ttaggtacc acccacttc ctctcgaa ggcagctct tctggagga caagacagga ccaatcaaag aggggacctg ctgggaatgg ggtgggtggt agaccacat catcaggcag cgggtaggc acagggaaga gggagggtg ctcaacaacca accagttcag aatgatacgg aacagcatt ccctgcagct aatgcttct tggctactct gtgccacct caacgaaaac caccatggga aacagaattt catgcacaat ccaaaagact ataaatatag gattatgatt tcatcatgaa tttttgag acacactcta agtttgagc tatttcttga tggaagtgag gggattttat tttcaggctc aactactga cagccacatt tgacattat gcgggaattc </p> | Homo sapiens |
| 379 | Alpha 1c- adrenoceptor | NP_000671.1 | <p> ssnctoppap vniskaillg vllgglllfg vlgnilvils vachrlhsv p thyvtnlav adllltstvl pfsaifevlg ywafgrvfcn iwaavdvllcc tasinglcii sidryigvsv plryptivtq rrglmallcv walslvlsig plfgwrqpap edeticqine epgyvlfesal gsflplaii lvmvcrvrvv akresrglks glktdksdse qvtrihrrkn apagsgmas aktkthfsvr llkfsrekka aktlgiwgc fvllwlpffl vmpigsfepd fkpsctvfkf vfwlgylnsc inpiypcss oefkafonv lriqlrrkq sskhalgyltl hppsqaavgq hkdmvripvg sretfyrisk tdgvcwkwff smprgsari tvskdqssct tarvrsksfl evccvcpst psldknhqvp tikvhtisls engcev gcgctcggcg cccaccagg gcagccccc gagaaacccct gcctccgtcg cggtcctgg a agagctgac gttaacctgc ccgggcccgc ctgaggacgg ggggtgcctc atgcggcccc </p> | Homo sapiens |
| 387 | Alpha 2a- adrenoceptor | NM_000681 | | |

caactcctc acccgcgc agctctgcg cccgagctcc gcacagtgcg cccagcccc agcagggcgc acaactttgg aagtctgcg agctcccg agggcgaga gtccgcgcgc cagccccgg cgggctcgg ccagaaacc agctctcgg ggaagccaga gactcgttaa tgcctcgg gatgtaagg gacagacata ggaacccaga gctgcata gacccctcg gctgcctcc ggggtgggg cggccccgc acacgtaag acctctgt ttcgctcagg ctcaagattc agatacaga tattgatat tatataata tttaattcc tgcatacctt ccaagtatc agccacaga tgatttttgt tctccctct tgaagaataa atctctctt accatcggc tctccctact ctctccgc gcttagaaat aaacttggc tgtattagga gctcgagca agaaggcgc caccgagc gctgaaag cagccagc gacttcgcg ggaacccggc catggggc tagcgtct cagttcgg cccggctcc ctgggcccc ctccctatg gagccgagc caggcgagc gggcgccga ggaagagag gaccacgg cgcggggc gaaggcagct ggcagcagg ggcgcccgc tggctccct gcagccgac ggcaggagc agcgttggc cgaaggcag tttgcacca tggctccct gcagccgac ggggcaacg cgaactggaa cgggaccag cgcggggg ggcggccgc ggcacccct tactccctc agtgacgt gacgtggtg tgcctggcg cctgctcat gctgctcacc gtgttcgga acgtgctgt catcatgcc gtgttcaga gccgcgct caaggcccc caaacctct tctggtgtc tctggctcg gccagatcc tggggccac gctgctcat cctttctgc tggcaacga ggtcatggc tactgtact tcggcaaggc ttggtcgag atctacctgg cgtcgagct gctcttgc actgtcca tctgcaact gtgcgcatc agcctggac gctactggt catcacag gccatcagt acaactgaa gcgacggc cgcgcatc ccacgagaa gaaggcgcc tgggtcatc cggcgtcat ctcctccc tgcgagata cgcacagaa gtgtacgt acctgtgt gcacggcg cgcagccgc gctgtcgt cctgctca tcatgact ggtacgt cgcactacc agatgccaa cgtcgcac cgcgtgcc ccagccgc ggtccgac gccgcgcg agcgccgg ggcacag cgcaggccca acggtctgg cccgagcg agcgggcc cggggggcg agagccgaa ccgctgcca cccagctcaa cggcgcct ggcgagccg cgcggcgcg gccgcgac accgacgc tggacctga gagagctcg tctccacc accgcgagc gctccagg ccccgagc ccgagcgcg tcccggggc aaaggcaag cccgagcg caggtgaa cggggcga cctgcgcg cgcggggcg gggcgagcg ggtcggag ccggtgca gggccgggg aggagcgt cggggctgc aagcgtcg gctggcgcg cggcagaac cgcgagaac gcttcagtt cgtgtggc gtgtcatc ggtgtcgt ggtgtcgt ttcctctct tcttacct cactcag cgcgtcgg gctcgtgc accagcgtc ttcaattct tcttctgtt cggctactc aacagctct tgaacccgt catctacc atcttcaac agatttccg cgcgcctc cgtagactc cgtgactgc aggcagga cggatcgt gaggttccg ctggcccg ctgactgc cgtgactgc aggcaggg gggcatcg ggtgcttag cccagggca ctgaaacc cgtcgtgc ttcctcgtc tgggtggct ctgcagct ctcgtcgt ctcctaca ggaagctct tctgcccag ccacacat ccagttgt ggttggca ccttgacct ggagccatc tctagtgg caccctaa tctctatgc ttcctaaag tattttacc ctcttgcct ggtacagcc tcacagctct tcagagcag cactgacta caaggcag

| | | | | | |
|----|-----|---------------------------|------------|---|-----------------|
| 40 | 387 | Alpha 2a- adrenoceptor | AAA51664.1 | <p>gctcacaaaa ggttaaatgga tggggggttac ctaggccctgg ctaattccccc ttccattccc aactctctct cctcttttga agaaaaatgc taagggcagc cctgcctgctg ctoceccatcc cccgctgtaa atatacacta ttttttgatag cacacatggg gcccccatat cctttggcct tggttttgat gttgaaatcc tggccttggg agagatgcct tccaggcaga cacagctgct tggttcaggc caagcccctt tgcaatgcaa gccctttctg gtgttatgaa gtccctctat tcgtcgtttt tccaccagcaa ctggtgactg tccctctgac acggacctgc tttgagattt cctgacaggg aaaagatttc tgtccatttt tttccttgctg ctaacagcat aattgccttt tcctatgtaa atattatgat ggtggatcaa gacataagta aatgagcctt tctgcctcac atcagccctg tgtataaagc cattattctc tgatgcactg tttgccccag taactcactt taaaaacctct ctttccagtg tccctctct cctccaggg ccactgcttg aagaagaata tgtatgtttc tatcttttat gtctgtgctg cctcctgccc ccgaaagtgc tgactatggg gaaatctttt agctgctgtt tttgactcc aaggagtgg aattatgtgg aagaagcaaa cctgatacaa tttgcccag gtaaacagtt tgaagaagaca aatgggcctg ccaaacctga cagtttcttc cccaagagct gttaggtatc aaaaatgtgt cctttccccc cctcgtgctt ttctgggtga gatcatgtca ttgatgaact gccaaagtca ggggaggagg gcaagagactt tgtgtttaca tctgcatctc tacatgtttt agacagagac aatttaaggc ctgcactctt atttcaactaa agaaaaaacta atgtcagcac atgttgctaa tgacagtggg tttttttta aataaaaaag tttacagatc aaatgtgaaa taaatatgaa tggagtggctc aaa MGSIQPDAGN ASWNGTEAPG GGARATPYSL QVTITLVCLA GLIMLLTVFG NVLIIIVFT P SRALKAPQNL FLVSLASADI LVATLVIPIFS LANEVMGYWY FGTWCEIYL ALDVLFTSS IVHLCAISLD RYWSITQAI EYNLKRTPRRI KALIIICWVI SAVISFPPLI SIEKKGSGGG POPAEPRCEI NDQWYVISS CIGSFFAPCL IMILVAVRIY QIAKRRTTRVP PSRRGPDAVA APPGGTERRP NGLGPERSAG PGGAEEAPLP TQLNGAPER APAGPRDTDA LDIESSSSD HAERPPGPRR PERGPRGKG ARASQVKPGD SLRGAGRGR GSGRRLOGRG RSASGLPRRR AGAGGQNLEK RETFVLAVI GVFFVVCWFPF FFTYTLTAVG CSVPRTLFKE FFWFGYCNS LNPVTYITFN HDPFRAFKKI LCRGDRKRIV</p> | Homo sapiens |
| 41 | 388 | Alpha 2b- adrenoceptor | NM_000682 | <p>atggaccacc aggaccccta ctcctgtcag gccacagcgg ccatagcggc ggccatcacc A ttctctattc tctttaccat cttcggcaac gctctggta ccttggtctgt gttgaccagc cgctcgtcgc ggcgccctca gaacctgttc cttctcgtg gccaacgagc tggccgcccgc cgacatcctg gtggccacgc teatcatccc tttctcgtg cttcgtgctg gctggggcta ctggtacttc cgcgccacgt ggtgcgaggt gtaoctggcg ctgcagctgc tctctgcaac ctcgtccatc gtgcacctgt gcgccatcag cctggaccgc tactggggccg tgagccgcgc gctggagtag aactccaagc gcaccccgcg ccgcatcaag tgcatactcc tcaactgtgtg gctcatcgcc gcctgcatct cgctgcgcgc cctcatctac aagggcgacc agggcccccga gccgcgcggg cgccccagc gcaagctcaa ccaggaggcc tggatcatcc tggcctccag catcgatct ttctttgctc ctgacctcat catgatcctt gtctacctg gcatctacct gatcgccaaa cgcaagaacc gcagaggtcc cagggccaaag gggggggcctg ggaggggtga gtccaagcag ccccgacccc acctgggtg ggccttggcc tcaagccaaac tgcagacctt ggcctctgtg gcttttgcca gagaggtcaa cggacactcg aagtcactg gggagaaagg gagggggggag acccctgaag atactgggac ccggggccttg ccaccagttt gggctgcctt tcccactca ggccagggcc agaaggaggg tgtttgtggg gcatctccag aggatgaagc tgaagaggag</p> | Homo sapiens |

gaagaggagg aggaggaggagg ggaagagtggt gaacccagg cagtccaggt gtctccggcc
 tcagcttgca gcccccgct gcagcagcca cagggtccccc ggggtctggc caccctaagt
 ggcaggtgc tccgtggcag gggcgtgggt gctatagtg ggcagtggtg gcgtcgaagg
 gcgcacgtga cccgggagaa cgccttcacc cgtctgctat tggcgttttt
 gtgctctgct ggttccccct cttcttcagc tacagctgg gcgccatctg cccgaagcac
 tgaagggtgc cccatggcct ctccagttc ttctcttgga tcggctactg caacagctca
 ctgaacccctg ttatctaac catcttcac caggactcc gccgtgcctt ccggaggatc
 ctgtgccgcc cgtggaccca gacggcctgg tgagcccgcc tgcctgccc ctgtgggggt
 ggtgcgtgg cgcgggggtc accctgcttc ttgccctgct gtgtgtggct gcctccctg
 ggctttctgc tccctgcca gactcgttag gccctatctt aggaacccct tgggaggggt
 gggcaggggg gctgctagca aggttccag tgaacttcc ccttgccggc ttagtgtgg
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 gaacatagcc aagaccagga gaagagagag cactttcttc ccagagcccc atgctctcca
 gaccaatgtc tgggcttccc ttctctgagg accttgtgt cctggcaggt cacttgcttg
 tgggttttc gtttctttt catctcccc ccaccacaa agagcacgga gccagccttc
 cactttccc agtggggcct gctgctgagg gggaggagga aacgaagact gatcacccac
 gctaggcact cgcgggtccc gaggcgtg tcatgggggt ttatgggggt gcctgtctc
 tgggcccctc ttccccctt tgcctgttc ggatctgtgg ttcccttgaa agccagaaca
 atggatcggc ttccttacc agcaccctc cggtagtggt gtggccacgt ggatgcctcg
 ctggggagggt ctggagccc tggctctgc ctgcagggga gatccccgat cactggcatt
 caccctctgc aaaaatcggg gcgacaatag ctactgcct acttgctga gggagatgaa
 agcctttgca gaaagcttg agctctgtg ggaacacac tagagaacca aaaatgtgat
 tataatggtga taaaaaatc ccttctctc gtgtgaatc ccactgtct tccgttagac
 tttgttctg tccctggggt gtgtgaatc ctaccgaa ctggaagccg ggaagtggcag
 acagaatcac tatttcagt taaagatct ctttgagaat gtgtctctt ggtgcaaaag
 gtctgagtta ttacgtaca tgacaacgtt tcgacatttc accggcaaca ccaagagggt
 ttttagtggtc ttgggtctcc ccagtggggg ataagctctt tgcatacaag gaggcaaat
 gtctcccaa gacagctcaa aatatccaca cctcggaac agtctaagat gagagcctgt
 gacaggtggc agcgccecca ggtgggttac tggcatcaga gccgtgtgcg cccctagggg
 agcctcccac tggagtggc ggccaggtct ccaagcccc aatgagtcct tgtgaaccac
 aactgatccc cccagtggtg tgccttgga ctgcctcgga ccagccacg ctgctccccg
 caatgctgat ggggctgtgc attgaggacc cctgtctctt ggttctcagt cccaccccaa
 aacctggcac ccagaacagt tggaaagtgt gaaaggaggt ttatcgccct tccctggag
 agggcctggc tcaacattg ggccagtagg catcttagct tggcaggtgt cgggggaatg
 ggccagatgg acctgctaga ttgggaagg caccagggga gtttcttgg ttagagaga
 atggaggggga ccaaaaagag tccctcctg ggtgtgggag gcttccacg ttggtcctca
 gtgggttgggt gaggccagag tateccctg gtagtgggt gggagctggg ccagagaggg
 gactgactgt gacctctgc tggccggtct tgtgtgcgc ccatgggacc cccagtgttc
 ttgctgtga cctcttattg cgacatgcag gtggtgtttt ttttttttt taaactctga
 gctattttat caataaggga tatttggtaa taag

388

Alpha 2b-

NP_000673.1 MDHQDPYSVQ ATAAIAAAT

FLILFTIFGN

ALVILAVLTS

RSLRAPQNL

LVSLAAADIL

P Homo

42

[illegible]

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|----|-----|---------------------------|-------------|---|-----------------|
| 44 | 389 | Alpha 2c- adrenoceptor | NP_000674.1 | <p> MSPALAAAL AVAAAGPNA SGAGERGSG VANASGASWG PPRGOYSAGA VAGLAADVGF P LIVFTWGNV LVVIAVLTSR ALRAPQNLFL VSLASADILV ATLVMFSLA NELMAYWYFG QVMCGVYLAL DVLFTSSIV HLCALSLDRY WSVTQAVEYN LKRTPRVKA TIVAVWLISA VISFPLVSL YRQPDGAAYP QCGLNDETWY ILSSCIGSEFF APCLINGIVY ARIYRVAKRR TRTLSEKRAP VGPDGASPTT ENGLGAAGE ARTGTARPRP PTWSRTRAAQ RPRGAPGGL RRGRRRAGA EGGAGGADGQ GAGPGAQSG ALTASRSPGP GGRLSRASSR SVEFFLSRRR RARSSVCRK VAQAREKRFT FVLAVVMGVF VLCWFPEFFI YSLYGICREA CQVPGPLKFE FFWIGYCNSS INPVIYTFN QDFRPSFKHI LFRRRRGRF Q ctgtgcatgg catcatctcg gccccctcta gactccaat cctccaacca gagcagctc A ttccctcaaa atgtacagc ctgtgacaat gctccagaag cctgggacct gctgcacaga gtgctgcga cattatcat ctccatctgt ttctctggcc tcctaggga cctttttgtc ctgttggtct tctcctcgcc ccggcgccaa ctgaacgtgg cagaaatcta cctggccaac ctggcagcct ctgactcgtt gtttgtcttg ggcttgccct tcctggcaga gaatatctgg aaccagttta actggccttt cggagccctc ctctgccgtg tcatacaagg ggtcatcaag gccaatctgt tcatcagcat ctctctggtg gtggccatca gccaggaccg ctaccgcgtg ctggtgcacc ctatggccag cggaaaggcag cagcgccgga gccaggcccg ggtcacctgc gtgctcatct ggggtgtggg gggcctcttg agcatcccca cattcctgct gcgatccatc caagccgtcc cagatctgaa catcacgcc tgcatctgc tctccccc tgaggccctg cactttgcaa ggattgtgga gttaaatatt ctgggtttcc tctaccact gctgcgcatc gtcttcttca actaccacat cctggcctcc ctgggaacgc gggaggaggt cagcaggaca agagtgcggg gccgaagga tagcaagacc acagcgctg tctcacgct cgtgggtgct ttcctggtct gctgggcccc ttaccacttc ttgctcttc tggaattctt attccaggtg caagcagtc caggctgctt ttggaggac ttcatcgacc tgggacctga attggccaac ttctttgct tcaactaacag ctccctgaat ccagtaattt atgtctttgt gggccggctc ttcaggacca aggtctggga actttataaa caatgcacc ctaaaagtct tgcctcaata tcttcaccc ataggaaaga aatcttccaa cttttctggc ggaattaaaa cagcattgaa cc </p> | Homo sapiens |
| 45 | 599 | Bradykinin B1 Receptor | NM_000710 | <p> cctccaacca gagcagctc A cctggacct gctgcacaga tcctaggga cctttttgtc cagaaatcta cctggccaac tcctggcaga gaatatctgg tcatacaagg ggtcatcaag gccaggaccg ctaccgcgtg ggcaggcccg ggtcacctgc cattcctgct gcgatccatc tctccccc tgaggccctg tctaccact gctgcgcatc gggaggaggt cagcaggaca tctcacgct cgtgggtgct tggaattctt attccaggtg tgggacctga attggccaac atgtctttgt gggccggctc ctaaaagtct tgcctcaata ggaattaaaa cagcattgaa cc </p> | Homo sapiens |

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|----|-----|---------------------------|-------------|--|-----------------|
| 46 | 599 | Bradykinin B1 Receptor | NP_000701.1 | MASSWPPLLEL QSSNQSLFP QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P VFLLPRRLQIN VAEIYLANLA ASDLVFVLGL PFWAENIWNQ FNPWFGALLC RVINGVIKAN LEISIFLVA ISQDRYRLV HPMASGRQQR RQARVTCVL IWVVGGLLSI PTFLLRSIQIA VPDLNITACI LLLPHEAWHF ARIVELNIG FLPLAAIVF FNYHILASLR TREEVSRTRV RGPKDSKTTA LILTLVAFL VCMAPYHFFA FLEFLFQVQA VRGCFWEDEFI DLGLQLANFF AFTNSSLNVP IYVVGRLFR TKWELYKQC TPKSLAPISS SHRKEIFQLF WRN | Homo sapiens |
| 47 | 600 | Bradykinin B2 Receptor | NM_000623 | atgtttctctc ctggaagat atcaatgttt ctgtctgttc gtgaggatc cgtgccacc A acggcctctt ccagcggca catgctcaat gtcaccttg aaggggccac tcttaacggg acctttgcc agagcaaatg ccccaagtg gagtggctg cgtggctcaa caccatccag cccccttc tctgggtgct gttcgtgtg gccacctag agaactctt tgtcctcagc gtcttctgcc tgcacaagag cagctgcacg gtggcagaga tctacctgg gaacctggcc gcagcagacc tgatcctggc ctgcgggctg ccttctctgg ccatcaccat ctccaacaac ttcgactggc tctttggga gacgctctgc cgcgtgtga atgccattat ctccatgaac ctgtacagca gcactctgtt cctgtactgc gtgagcatcg accgtacct ggccctgggtg aaaaccatgt ccatgggccc gatgcggcg gtgcgtctgg ccaagctcta cagcttgggtg atctgggggt gtacgtgct cctgagctca ccatgctgg tgtccggac catgaaggag tacagcgatg agggccacaa cgtcacccgt tgtgtcatca gctacccatc cctcatctgg gaagtgttca ccaacatgct cctgaatgtc gtgggcttc tgctgcccc gagtgcac accttctgca cgtgcagat catgcagggt ctcgcgaaca acgagatgca gaagtcaag gagatccaga cggagaggag ggccacgggt ctactcctg ttgtgctgct gctattcctc atctgctggc tgcctttcca gatcagcacc tctctggata cgtgcacgc cctcggcctc ctctccagct gccaggacga gcgcatcctc gatgtaatca cacagatcgc ctcttctatg gcctacagca acagctgcct caaccactg gtgtactgta tctgtggcaa gcgcttccga aagaagtctt ggaggtgtga ccaggaggtg tgcagaaaag ggggctgcag gtcagaaccc attcagatgg agaactccat gggcacactg cggacctcca tctcctgga acgccagatt cacaaactgc agactgggc agggagcaga cagtgcagca acgccagcag ggtgctgtg aatgtgtga aggattgag gacagtgtt gaaatgagtt ttccagcatg gcccaggaa tgcacaaggag acatctatgc acgacctgg gaaatgagtt gatgtctccg gtaaaacacc ggagactaat tcttgccctg ccaattttg caggagcat ggtgtgagg atgggtgaa ctacgcaca gccaggact ccaaatcac aacagcata ctgttcttat ttgctgccac acctgagcca gcctgctcct tccaggagt ggaggaggcc tggggggagg gagaggagt actgagcttc cctcccggtg ttctccgtc cctgccccag caagacaact tagatctcca ggagaactgc catccagctt tgggtgcaatg gctgagtga caagttagtt gttgccccgg gtttctttaa tctattcag tagaactttg aggacaatt tcttgcatata ataaaggta agccctgagg ggtccctgat acaacctgg agaccaggat ttatggctc cctcactga tggacaagga ggtctgtgcc aaagaagaat ccaataagca catattgagc acttgctga tatgcagtat tgagcactgt aggaagacc caagaaagag aaggagccat ctccatcttg aaggaactca aagactcaag tgggaacgac tgggacctgc caccaccaga aagctgttcg acgagacggt cgagcaggggt gctgtgggtg atatggacag cagaaggggg agaccaagg tccagctcaa ccaataacta ttgcacaacc acctgtccct gctcagttc cttttatgt aacatgaagt cgttgtgagg gttaaaggca gtaacaggta taaagtactt agaaaagcaa aggtgtgtac | Homo sapiens |

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|----|-----|---------------------------|-------------|---|---|--|---|---|---|-----------------|
| 48 | 600 | Bradykinin B2 Receptor | NP_000614.1 | MFSPWKISMF PPFLWLVLVL FDWLFGETLC IWGCTLLLS TFCTMQIMQV LSSCQDERI IQMENSMTGL tgctaccgc cccgcccccg agccccgtaa tgctgggtgc cgctgtctca tcgtggcggg | LSVREDSVPT ATLENIFVL RVNNAIISMN PMLVFRYMK LRNNEQMRFK DVTQIASFM RTSISVERQI gccccggctt gcctccgcag cctgtgtctg cgctgcgcg gcagtggaca caatgtgtctg | TASFSDMLN VFCLHKSSCT LYSSICFILM YSDEGHNVT EIQTERRATV AYSNSCLNPL HKLQDWAGSR ctggggtgtt ctcggcatgg gccgcacgcg cccgctcgt gcgggcatgg gtgatcgtg | VTLOGPTLNG VAEIVLGNLA VSIDRYLALV CVISVPSLIW LVIVLLLF ICWLFPQIST KKSWEVYQGV cccccaacc gcgggggggt tccccgcg tgctgcctcc ccatgcctcc ccatgcctcc | TFAQSKCPQV AADLILACGL KTMGMGRMG EVFTNMLLN VGFLLPLSVI FDTLHRLGI CQKGGCRSEP ggccccaccc gctcgtcctg cgcgccacc cgccagcgaa ggcgctcatc cacgcgcgg | EWLGLWNTIQ PFWAITISNN VRWAKLYSLV VGFLLPLSVI FDTLHRLGI CQKGGCRSEP ggccccaccc gctcgtcctg cgcgccacc cgccagcgaa ggcgctcatc cacgcgcgg | Homo sapiens |
| 49 | 635 | Beta-1 adrenoceptor | NM_000684 | aaaaaaaaa aaatcatgtaa acatgtgtct tgctaccgc cccgcccccg agccccgtaa tgctgggtgc cgctgtctca tcgtggcggg | acatgtgtct tgctaccgc cccgcccccg agccccgtaa tgctgggtgc cgctgtctca tcgtggcggg | tgctaccgc cccgcccccg agccccgtaa tgctgggtgc cgctgtctca tcgtggcggg | tgctaccgc cccgcccccg agccccgtaa tgctgggtgc cgctgtctca tcgtggcggg | tgctaccgc cccgcccccg agccccgtaa tgctgggtgc cgctgtctca tcgtggcggg | tgctaccgc cccgcccccg agccccgtaa tgctgggtgc cgctgtctca tcgtggcggg | Homo sapiens |

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|----|-----|------------------------|-------------|---|-----------------|
| 50 | 635 | Beta-1 adrenoceptor | NP_000675.1 | <p> tcaccaaacct cttcatcatg tccctggcca gcgcgacat ggtcatgggg ctgctggtgg tgccgttcgg gccaccatc gtggtgtggg gccgtggga gtacgctcc ttctctcg agctgtggac ctcagtggac gtgctgtcg tgacggccag catcgagacc ctgtgtgtca ttgcccctga ccgtacctc gccatccat cgccttcog ctaccagagc ctgctgagc gcgcggggc gcggggcctc gtgtgacccg tgtgggccc ctcggcccctg gtgtccttc tgcccatcct catgcaactg tggcgggcgg agagcgacga ggcgcgcgc tgctacaacg accccaagt ctgcgacttc gtacccaac gggcctacgc catgcctcg tccgtagtct ccttctacgt gccctgtgc atcatggct cgtgtacct cgtgtgttc cgcgagccc agaagcaggt gaagaagatc gacagctgc agcgccttt cctcggcggc ccagcgcggc cgccctgcc ctgcctcgc cccgtcccc gcgcgcgcgc gccgcgcgga ccccgcgcc ccgcgcgcgc gcgcgcacc gcccgctgg ccaacggggc tgcgggtaag cggcggcct cgcgcctcgt ggcctacgc gacgagaag cgtcaaacg gctgggcatc atcatgggcg tcttcacgct ctgctggctg ccttcttc tggccaaagt ggtgaaggcc ttccaccgcg agctgtgcc cgaccgctc ttctcttct tcaactgct gggctacgc aactcgct tcaaccccat catctactgc cgcagcccc cactccgaa ggccttcag ggaactgct gctgcgcgc cagggtgcgc gcgcgcgcgc acgcaccca cggagaccgc ccgcgcct cgggctgtct ggcgcgcgc gcacccccgc catgcgcgc ggcgcctcg gacgacgacg acgacgatgt cgtcggggc acgcgcgcgc cgcgcctgt ggcgcctgg gccggctga acggcgggc gcggcgagc agcgactga gcctggacga gccgtgcgc cccggcttcg cctcggaatc caaggtgtg ggcgcgcgc gggcgcgga ctcggggcac ggcctccag gggaacgag agatctgtgt ttacttaaga cggatagcag tgaactga agccacaat cctcgtctga atcatccgag gcaagagaa aagcacgga cgtttgcaca aaaaggaaa ttgggaagg gatggagag tggctgtcg atgttcctg ttg MGAGVILGA SEPNLSSAA PLPDGAATAA RLIVPASPPA ASADLMGLL VVFGATIVV MGLMALIVL LIVAGNLVI VAIAKTPRLQ TITNLFIMSL TSPFYQSL TRARAGLVC WGRWEYSFF CELWTSVDVL CVTASITLC VIALDRYLAI TSPFYQSL TRARAGLVC TVWALSALVS FLPILMHWR AESDEARCY NDPKCCDFV NRAYAIASSV VSFYVPLCIM AFVYLRVRE AQKQVKIDS CERRFLGGA RPPSPSPV PAPAPPPGP RPAANAATAP LANGRAGRR PSRLVALREQ KALKTILGIIM GVFTLCWLFP FLANVVKAFH RELVPDRLFV FFNWLGYANS AFNPIIYCRS PDFRKAFOGL LCCARRAARR RHATHGDRPR ASGLARPGP PPSGAASDD DDDVVGATP PARLLEPWAG CNGGAADSD SSLDEPCRPG FASESKV actgcgaagc ggtcttctca gagcacgggc tggaaactggc aggcacgcg agccctagc A acccgacaag ctgagtgtgc aggcagatc cccaccacac ccacaccaca gccgctgaat gaggtctcca ggcgtccgct cgcggccgc agagccccgc cgtgggtccg ccgctgagc cgccccagc cagtgcgctt acctgccaga ctgcgcgcca tggggcaacc cgggaacggc agcgcctct tgcctggcacc caatagaagc catgcgcgcg accacgacgt caccgagca agggacgag tgtgggtgtt gggcatgggc atcgtcatgt cctcatcgt cctggccatc gtgtttggca atgtgtgtgt catcacagcc attgccaagt tgcagcgtct gcagacggtc accaactact tcatcacttc actggcctgt gctgatctgg tcatggcctt ggcagtgggtg cctttgggg cgcccatat tcttatgaa atgtggactt ttggcaactt ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagaccct gtgcgtgatc </p> | Homo sapiens |
| 51 | 640 | Beta-2 adrenoceptor | NM_000024 | <p> actgcgaagc ggtcttctca gagcacgggc tggaaactggc aggcacgcg agccctagc A acccgacaag ctgagtgtgc aggcagatc cccaccacac ccacaccaca gccgctgaat gaggtctcca ggcgtccgct cgcggccgc agagccccgc cgtgggtccg ccgctgagc cgccccagc cagtgcgctt acctgccaga ctgcgcgcca tggggcaacc cgggaacggc agcgcctct tgcctggcacc caatagaagc catgcgcgcg accacgacgt caccgagca agggacgag tgtgggtgtt gggcatgggc atcgtcatgt cctcatcgt cctggccatc gtgtttggca atgtgtgtgt catcacagcc attgccaagt tgcagcgtct gcagacggtc accaactact tcatcacttc actggcctgt gctgatctgg tcatggcctt ggcagtgggtg cctttgggg cgcccatat tcttatgaa atgtggactt ttggcaactt ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagaccct gtgcgtgatc </p> | Homo sapiens |

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|----|-----|------------------------|-------------|--|-----------------|
| 52 | 640 | Beta-2 adrenoceptor | NP_000015.1 | <p>gcagtggatc gctactttgc cattacttca cctttcaagt accagagcct gctgaccaag aataaggccc ggtgatcat tctgatgtg tggattgtg caggccttac ctccttcttg ccattcaga tgcactggtg cggggccacc caccaggag ccatcaactg ctatgccaat gagactgct gtcacttctt caggaacca catgcttcca ttgctcttc catcgtgtcc ttctacgttc cctggtgat catggtcttc gctactcca ggtctttca ggaggccaaa aggcagctcc agaagattga caaatctgag ggcgcttc atgtccagaa ccttagccag gtggagcagg atgggcgag ggggcattga ctccgcat ctccaagt ctgcttgaag gagcacaag cctcaagac gttaggcat atcatggga ctttaccct ctgctggctg ccttcttca tcttaacat tctgcatgt atccaggata acctatccg taagaaagt tatactctc taattggat agcctatgt aatctggt tcaatccct tatctactgc cggagcccg atttcaggat tgccttccag gacttctgt cctggcgag tcttctttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaa taaactgtg tgtgaagacc tcccaggcac ggaagacttt gtgggccatc aagttactgt gctagcagat aacattgatt cacaaggag gaattgtagt acaaatgact cactgctgta agcagtttt tctactttta agaccccc ccccccac agaacactaa acagactatt taactggag gtaataaact tagaataaaa ttgtaaaaat tgtatagaga tatgcagaag gaaggcatc ctctgcctt ttttatttt ttaagctgta aaaagagaga aaacttatt gagtgattat ttgtatttg tacagttcag ttcctctttg catggaattt gtaagttat gtctaaagag cttagtctt agaggacctg agtctgctat atttctatga cttttccatg tatctacct actatcaag tattaggggt aatatattgc tgctggtaat ttgtatctga aggagatttt ccttctaca ccttgagat tgaggatttt gagtatctcg gacctttcag ctgtgaacat ggactcttcc cccactctc ttatttgcctc acacggggtg ttttaggcag gatttgagg agcagcttca gttgttttcc cgagcaagg tctaaagttt acagtaata aaatgttga ccatg</p> | Homo sapiens |
| 53 | 643 | Beta-3 adrenoceptor | NM_000025 | <p>SLIIVLIVFG NVLVITAIK P FGNFWCEFWT SIDVLCVTAS SGLTSFLPIQ MHWYRATHQE RVFOEAKRQL QKIDKSEGRF TFTLCWLFFF IVNIVHVIQD CLRRSSLKAY GNGYSSNGNT SQGRNCSTND SLL</p> <p>gctactctc ccccaagac ggtgcaccg aggagattg ggtgggggga ggctgagcgc A tctggctgg acagctagag aagatggccc aggtgggga agtcgctctc atgccttgc gtccccctc ctgagccagg tgattggga gacccccctc ttccttctt ccttaccgc ccacgcgga cccgggagat gctccgtggc ctacagagaa cagctctctt gccccatggc cggacctccc caccctggcg cccaataccg ccaacaccag tgggctgcca ggggttccgt gggagcgggc cctagccggg gacctgctg gctggcggt gctggccacc gtgggagcca acctgctggt catcgtggcc atgcctgga ctccagagat ccagaccatg accaacgtgt tcgtgacttc gctggccgca gccgacctgg tgatgggact cctgggtggt ccgccggcg ccacctggc gctgactggc cactggccgt tggcgccac tggctgcag ctgtggacct cgggtggact gctgtgtgtg accgccaaga tcgaaccct gtgcgcctg gccgtggacc</p> | Homo sapiens |

Homo
sapiens

MAPWPHENSS LAPWPDLP TL APNTANTSG L PGVPEWAA L GALLALAVLA TVGGNLLVIV P
 AIAWTPRLQT MTNVFVTS LA AADLVMG L LV VPPAATIAL T GHWPLGATGC ELWTSVDVLC
 VTASIELTCA LAVDRYLA VT NPLRYGAL VT VVVVSAAVSF APINSQWWRV
 GDAEAEQORCH SNPRCCAFAS NNPYVLLSS VSEYLP L LV L FVYARV FV ATQRLRLMG
 ELGRFPPEES PPAPSRSLAP APVGTCA PPE GVACGR RPA RLPLREHRA LCTLGLIMGT
 ETLCLWLPFFL ANVLRALGGP SILVPGAPFLA LNWLYGANS A FNPLIYCRSP DFRSAFRLL

**Beta-3
adrenoceptor**

643

54

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|----|-----|-----------------------------------|-------------|--|--------------|
| 55 | 688 | Opsin, blue- sensitive | NP_001708 | <p> CRGRRRLPPE PCAARPALF PSQVPAARSS PAQPRLCQRL DGASWGVs ggcaccatg agaaaaatgt cggaggaaga gttttatctg ttcaaaaaa tctcttcagt A ggggccgtgg gatggcctc agtaccacat tggccctgtc tgggccttct acctccaggc agctttcatg ggcactgtct tctttatagg gtccccactc aatgccatg tgcgtgtggc cacactgcg tacaaaaagt tgcggcagcg cctcaactac attctggtea acgtgtcctt cggaggcttc ctctctgca tctctctgtg tctccctgtc ttcgtcgcca gctgtaacgg atacttcgtc ttgggtcgcc atgtttgtgc tttggagggc ttccctggga ctgtagcagg tctggttaca ggaatgggtcac tggccttctc ggcctttgag cgtacattg tcatctgtaa ggccttcggc aacttcgctc tcaagtccaa gcatgcactg acggtgggtc tggctacctg gaccattggt attggcgtct ccattcccacc cttctttggc tggagccggt tcatccctga gggcttgtag tgttctctgt gccctgactg gtacaccgtg ggcacccaaat accgcagga gtctatagc tgggtccctc tcatctctctg cttcatgtg cctctctccc tcatctgctt ctctacact cagctgctga gggccctgaa agctgttgca gctcagcagc aggagtcagc tacgacccag aaggctgaac gggaggtgag ccgcatgtgt gttgtgatgg taggatacctt tctgtctgc tactgacct acgcgccct cgcctgttac atggtcaaca accgtaacca tgggctggac ttacggcttg tcaccattcc ttcattctc tccaagagt cttgcattct caatcccatc atctactgct tcatgaataa gcagttccaa gcttgcatca tgaagatggt gtgtgggaag gccatgacag atgaatccga cacatgcagc tcccagaaaa cagaagtctc tactgtctcg tctaccacag ttggcccaaa ctgaggacc ccaattggcc tgtttgcaac agctagaatt aaattttact t </p> | Homo sapiens |
| 56 | 688 | Opsin, blue- sensitive | NP_001699.1 | <p> MRKMSSEEFY LFKNISSVGP WDGQYHIAF VWAFLQAAF MGTVFLIGFP LNAMVLVATL P RYKKLRQPLN YILNVSVFGG FLICFVSFP VFVASCNGYF VGRHVCALE GFLGTVAGLV TGWSLAFLAF ERYVIVICKPF GNFRSSSKHA LTVLATWTI GIGVSIPIFF GWSRFIPEGL QCSCGPDWYT VGTKYRSESY TWFLIFCFI VPLSLICFSY TQLLRALKAV AAQQQESATT QKAEREVSRM VVMVGSFCV CYVYAAAFM YMVNNRNHGL DLRLVTIPSF FSKSACIYNP IIYCFMKNQF QACIMKWVG KAMTDES DTC SSQKTEVSTV SSTQVGPN </p> | Homo sapiens |
| 57 | 692 | Bombesin Receptor Subtype-3 | NM_001727 | <p> gagtatctgg atgtcttgga tttctctccc attctgtctt gttctgttct cctaatacca A tctcgttact agacgtaggc attggacgtg acaatcaact gcatttgaac tgagaagaag aaatattaaa gacacagtct tcagaagaaa tggctcaaa ggcgcctcac tcaactaatc agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtggtt tctaacgata acacaaaata aggatggagc ggggacaact ctcaggaat agaagcattg tgtgccatct atattactta tgcgtgatc atttcagtgg gcacccctgg aaatgctatt ctcataaaa tctttttcaa gaccaaattc atgcaaacag ttccaatat ttctatcacc agcctggctt ttggagatct ttacttctg ctacttctg tggcagtgga tgcaactcac taccttgacg aaggatggtc gttcgggaaga attggttgta aggtgtctc ttccatccgg ctcacttctg ttggtgtgct agtgttcaca ttaacaattc tcagcgtga cagatacaag gcagttgtga agccactga gcgacagccc tccaatgcca tctgtagac ttgttaaaa gctggctgcg tctggatcgt gctatgata ttgtctctac ctgaggtat atttcaaat gtatacactt ttcgagatcc caataaaaaat atgacatttg aatcatgtac ctttatcct gtcttaaga agctcttgca agaaatacat tctctgtgt gttctctagt gttctacatt attccactct ctattatctc tgtctactat tctcttgatt ctaggaccct ttacaaaagc acctgaaca </p> | Homo sapiens |

Homo
sapiens

P

NP_001718.1

Bombesin
Receptor
Subtype-3

692

58

tacctaactga ggaacaaagc catgcccgta agcagattga atccccaaag agaattgcc
gaacggattt ggtgttggtg gctctgtttg ccctctgttg gttgccaaat cacctcctgt
acctctacca ttcatctact tctcaaacct atgtagacc ccttgccatg catttcattt
tcaccatttt cctcgggtt ttggctttca gcaattcttg cgtaaacccc ttgtctctct
actggctgag caaaagcttc cagaagcatt ttaaagctca gttgttctgt tgcaaggcgg
agcggcctga gctcctctgt gctgacacct cctctaccac cctggctgtg atgggaacgg
tcccgggcac tgggagcata cagatgtctg aaattagtgt gacctcgttc actgggtgta
gtgtgaagca ggcagaggac agattctagc ttttcaagga aaatgctgc ttctctctcc
agcgtgtgta tccgactcta agctgtgtgc agg

MAQRQPHSPN QTLISITNDT ESSSSVVSND NTNKGWSDN SPGIEALCAI YITYAVIISV P
GILGNAILIK VFFKTKSMQT VNFIFITSLA FGDLLLLLTC VPVDATHYLA EGWLFGRIGC
KVLSEFIRLTS VGVSVFTLTI LSADRYKAVV KPLERQPSNA ILKTCVKAGC VWIVSMIFAL
PEAIFSNVYT FRDPNKNMTE ESCTSYPSVK KLLQEIHSLL CFLVFIIPPL SIISVYYSLI
ARTLYKSTLN IPTEEQSHAR KOIESRKRIA RTVLVLVLF ALCWLPNHL LLYHSFTSQT
YVDPSAMHFI FTIFSRVLAF SNSCVNPFAL YWLSKSFQKH FKAQLFCCKA ERPEPPVADT
SLTTLAVMGT VPGTGSIQMS EISVTSFTGC SVKQAEDRF

NM_001716

CXC
Chemokine
Receptor 5

729

59

Homo
sapiens

A

gctgccacct ctctagaggc actggcggtg gagcctctca acataagaca gtgaccagtc A
tggtgactca cagccggcac agccatgaac taccgcgtac cgctggaaat ggacctcgag
aacctggagg acctgttctg ggaactggac agattggaca actataacga cacctccctg
gtgaaaaatc atctctgccc tggcacagag gggccctctca tggcctcctt caaggccgtg
ttcgtgcccc tggcctacag cctcatcttc cctcgtggcg tgatcgga cgtcctgggtg
ctggtgaccc tggagcggca cggcagaca cgcagttcca cggagacctt cctgtttccac
ctggccgtgg ccgacctcct gctggtcttc atcttgcctt ttgccgtggc cgagggtctt
gtgggctggg tccctggggac cttcctctgc aaaaactgtga ttgccctgca caaagtcaac
ttctactgca gacgctgtgt cctggcctgc atcgccgtgg accgtacctt ggccattgtc
cacgcccgtcc atgcctaccg ccaccgcgc cctcctctca tccacatcac ctgtgggacc
atctggctgg tgggcttctt ccttgccttg ccagagattc tcttcgcaa agtcagccaa
ggccatcaca acaactccct gccagttgc accttctccc aagagaacca agcagaaacg
catgctggtt tcaactcccg attctctac catgtggcgg gattcctgtt gccatgctg
gtgatgggct ggtgctacgt gggggtagtg cacaggttgc gccaggccca gggcgccct
cagcggcaga aggcagtcag ggtggccatc ctggtgacaa gcatcttctt cctctgtgg
tcacctacc acatcgtcat cttcctggac acctggcga ggtggaaggc cgtggacaat
acctgcaagc tgaatggctc tctccccgtg gccatcaca tgtgtgagtt cctgggcctg
gccactgct cctcaaccc catgctctac actttcgccg gegtgaagt cgcagtgac
ctgtcgcggc tccctgacga gctgggctgt accggccctg cctccctgtg ccagctcttc
cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctct caccagttc
taggtcccaag tgtcccttt tattgtgtgt ttctctggg gcaggcagtg atgtggagtg
ctccttccaa caggagctgg gatctaagg gctcaccgtg gctaagagtg tctaggagt
atcctcattt ggggtagcta gaggaaccaa ccccatctt tagaacatcc ctgccagctc
ttctgccggc cctggggcta ggctggagcc caggagcgg aaagcagctc aaaggcacag
tgaaggctgt ccttaccat ctgaccccc ctggcgtgag agaactcac geactctcca

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|----|-----|--------------------------------|-------------|--|--|---|---|---|-----------------|
| 60 | 729 | CXC Chemokine Receptor 5 | NP_001707.1 | MNYPLTLEMD IFLLGVIGNV LCKTVIALHK ALPEILFAKV VWHLRQAOQ PVAITMCEFL SESENATSLT TF | LENLEDLFEW LVLVILERHR VNFYCSSLLL SQGHNNNSLP RPQROKAVRV GLAHCCLNPM LYTFAGVKFR | LDRLDNYNDT QTRSSTETFL ACIAVDRYLA RCTFSQENQA AILVTSIFFL CWSPYHIVIF SDLSRLTLKL | SLVENHLCPA FHLVADILL IVHAVHAYRH ETHAWFTSRF LDTLARKAV GCTGPASLCQ LFPSSRRSSL | TEGPLMASFK VFIPLFAVAE RRLSIHITC LYHVAGFLLP DNTCKINGSL LFPSSRRSSL | Homo sapiens |
| 61 | 735 | C-C Chemokine Receptor 1 | NM_001295 | ggcacgagcc ggatggaaac atgcaactcc tgtactccct tgcaatacaa acctgctctt tttttgggtg agatcttttt ttgaccttgg tggccatctt accacacctg | cagaaacaaa tccaaacacc gtgccagaag ggatattgtc aacatgacca cctgttcaag tgccatgtgt catcatcctg ggcacggacc ggcttccatg cagccttcac | gacttccacg acagagact gtgaacgaga attggcctgg acatgacca cttccctct aagatccct ctgacctgt ctgacctgt gtcactttt ccaggcttat | acaaagtccc atgacacgac gggaccttgg ttggaaacat gcatcaccct ggatcgacta ctgggtttta acagggaag ggccatcct gtgacgattg gtcactttt aaagcctacg | agagaagccg gactatggg ctgccccctc ctggctcctg gccattctg gatgactggg ttgacacagg cacgccgtgt atbtggggcc gaattcactc ctgttttcagg | Homo sapiens |

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|----|-----|--------------------------------|-------------|--|-----------------|
| 62 | 735 | C-C Chemokine Receptor 1 | NP_001286.1 | <p>ctctgaaact gaacctcttt gggtggtat tgcctttgtt ggtcatgac atctgtaca cagggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccgtt tgatttttgt catcatgac atcttttttc tcttttgac cccctacaat ttgactatac ttatttctgt ttccaagac ttctgttca cccatgagt tgagcagagc agacatttg acctggctgt gcaagtgcg gagtgatcg cctacacgca ctgctgtgtc aaccagtg tctacgctt cgttggtgag aggttccgga agtaccgag gcagtgttc cacaggcgtg tggctgtgca cctgggttaa tggctccct tctctccgt ggacaggctg gagagggtca gtccacatc tccctccaca ggggagcatg aactctctg tgggttctga ctcagaccat aggaggccaa cccaaaataa gcaggcgtga cctgccaggc acactgagcc agcagcctgg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tggatagag agggaatgta atggtggcct ggggttctg aggttcttg ggttcagtc ttttccatga actctcccc tggtagaag aagatgaatg agcaaaacca aatattccag agactgggac taagtgtacc agagaaggc ttggactcaa gcaagatttc agatttga ccattagcat ttgtcaacaa agtcaccac ttcccactat tgggtgcaca aaccaattaa accagtagt ggtgactgt ggtccattc aaagttagct cctaaagccat gggagacact gatgtatgag gaatttctgt tcttccatca cctcccccc cccgccacc tccactgcc aagaacttgg aaatagtat ttccacagt actccactc agtcccaga gccaatcagt agccagcatc tgctccccct tcactccac cgcaggattt gggctcttgg aatcctggg aacatagaac tcatgacgga agagttaga cctaacgaga aatagaaatg ggggaactac tgctggcagt ggaactaaga agcccttag gaagaatttt tatatccact aatatcaaac aattcagga tggggctaag cagggccat atgaataaca tgggtgtcct cttaaaaatg ccataaaggg gagggactca tcaattccat ttacccttct ttctgacta ttttcagaa tctctctct tttcaagtg ggtgatagt tggtagattc taatggcttt attgcagcga ttaataaacg gcaaaaggaa gcagggttgg ttccctctc ccatcttga ctgtcagca aaaaaaaa atgggtcaga gttccgactg ccatcttga ctgtcagca aaaaaaaa aaaaaa QYKRLKNMYS IYLNLAISD LFLFTLPFW IDYKLKDDWV FGDAMCKILS GFYTTGLYSE IFFILLITID RYLAIVHAVF ALRARTVTFG VITSIIWAL AILASMPGLY FSKTQWETH HTCSLHFPHE SLREWKLFOA LKLNLFGLVL PLLVMIICYT GIKILLRRP NEKSKAVRL IFVIMIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCWNPVI YAFVGERFRK YLRQLFHRV AVHLVKWLPF LSVDRLEVS STSPSTGEHE LSAGE ttttcttct tctatcacag ggagaagtga aatgacaacc tcaatagata cagttgagac A ctttggtacc acatcctact atgatgactg ggcctgtctc tgtgaaaaag ctgataccag agcaactgat gccagtttg tgcctccgtg tgaactccctg ggttccactg tgggctctt gggcaatgtg gtggtggtga tgatcctcat aaaaacaggg aggtccgaa ttatgaccaa catctacotg ctaaaccttg ccatttcgga ctgtctctc tctgtcacc ttccattctg gatccactat gtcagggggg atactgggt ttttggccat ggcatgtgta agctcctctc agggttttat cacagagct tgtacagcga gatcttttcc ataactctgc tgacaatcga caggtacctg gccattgtcc atgtgtgtt tgccttccga gccggactg tcaacttttg tgtcatcacc agcatcgtca cctggggcct ggcagtgtga gacgtcttc ctgaattat cttctatgag actgaagatg tgttgaaga gactcttgc agtctctt acccagagga</p> | Homo sapiens |
| 63 | 737 | C-C Chemokine Receptor 3 | NM_001837 | | Homo sapiens |

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|----|-----|--------------------------------|-------------|---|-----------------|
| 64 | 737 | C-C Chemokine Receptor 3 | NP_001828.1 | <p> tacagtatat agctggaggc atttccacac tctgagaatg accatctctt gtctcgttct cctctgctc gttatggcca tctgctacac aggaatcatc aaacgctgc tgagtgccc cagtataaaa aagtacaagg ccatcggtc atctgttgc atcatggcg tgttttcat tttctggaca cctacaatg tggctatctc tctctcttc tatcaatcca tcttatttgg aaatgactgt gagcggagca agcatctgga cctgggtcag cttggtacag agtgatcgc ctactccac tggctgatga acccggtgat ctacgctttt gtgagagaga ggtccggaa gtacctgcg cacttcttc acaggcactt gctcatgac cttgggcagat acatccatt ccttctagt gagaagctgg aaagaaccag ctctgtctct ccatccacag cagagccgga actctctatt gtgttttagg tcagatgcag aaattgctt aaagaggag gaccaaggag atgaagcaaa cacattaagc cttccacact cacctctaaa acgtctctc aaacttcag t </p> | Homo sapiens |
| 65 | 738 | C-C Chemokine Receptor 4 | NM_005508 | <p> t cagagtgatc agctggaggc atttccacac tctgagaatg accatctctt gtctcgttct cctctgctc gttatggcca tctgctacac aggaatcatc aaacgctgc tgagtgccc cagtataaaa aagtacaagg ccatcggtc atctgttgc atcatggcg tgttttcat tttctggaca cctacaatg tggctatctc tctctcttc tatcaatcca tcttatttgg aaatgactgt gagcggagca agcatctgga cctgggtcag cttggtacag agtgatcgc ctactccac tggctgatga acccggtgat ctacgctttt gtgagagaga ggtccggaa gtacctgcg cacttcttc acaggcactt gctcatgac cttgggcagat acatccatt ccttctagt gagaagctgg aaagaaccag ctctgtctct ccatccacag cagagccgga actctctatt gtgttttagg tcagatgcag aaattgctt aaagaggag gaccaaggag atgaagcaaa cacattaagc cttccacact cacctctaaa acgtctctc aaacttcag t </p> | Homo sapiens |

Homo
sapiens

NP_005499.1

C-C
Chemokine
Receptor 4

738

66

gtccagcctg gcaagggttc acctgggctg aggcatacct cctcacacca ggcttgccctg
caggcatgag tcagtcctgat gagaactctg agcagtgctt gaatgaagtt gtaggtaata
ttgcaaggca aagactattc ccttctaacc tgaactgatg ggtttctcca gaggaattg
cagagtactg gctgatggag taaatcgcta ccttttgctg tggcaaatgg gcccccg
NMPTDIADTT LDESISYNY LYIESCPKPT KEGIKAFGEL FLPLYSLVF VFGLGNSVV P
VLVLFKYKRL RSMIDVYLLN LAISDLLFVF SLPFWGYAA DQWVFGGLGIC KNISWMYLVG
FYSGIFFVML MSIDRYLAIV HAVFSLRART LTYGVITSLA TWSVAVFASL PGFLFSTCYT
ERNHTYCKTK YSINSTTWKV ISSLEINILG LVIPLGIMLF CYSMIIRTLQ HCKNEKKKA

NM_001838

C-C
Chemokine
Receptor 7

741

67

gtgagacagg gtagtgca ggcggggcac agccttcctg tgtgggttta cgcgccagag A
agcgtcatgg acctggggaa accaatgaaa agcgtgctgg tgggtgctct ccttgctatt
ttccaggatg gctgtgtca agatgaggtc acggacgatt acatcggaga caacaccaca
gtggactaca ctttgttgc gtctttgtgc tccaagaagg acgtgcggaa ctttaaaagcc
tggttcctcc ctatcatgta cctcatcatt tgtttcgtgg gctactggg caatgggctg
gtcgtgtga cctatatcta ttccaagggt ctcaagacca tgaccgatac ctacctgctc
aacctggcgg tggcagacat cctcttctc ctgaccttc ccttctgggc ctacagcgcg
gccaagtccct ggtctctcg tgtccacttt tgcaagctca tctttgcca ctacaagatg
agcttcttca gtggcatgct cctacttctt tgcactgca ttgaccgcta cgtggccatc
gtccaggctg tctcagctca cggccacctg gcccgcgtcc ttctcatcag caagctgtcc
tgtgtgggca tctggatact agccacagtg ctctccatcc cagagctcct gtacagtga
ctccagagga gcagcagtga gcaagcagt gcatgctctc tcatcacaga gcatgtggag
gcctttatca ccatccaggt ggcacagatg gtgatcggct tctgtgtccc cctgtggcc
atgagcttct gttacctgtg catcatccgc acctgtctc aggcacgcaa ctttgagcgc
aacaaggcca tcaaggtgat catcgtgtg gtctgtgtct tcatagtctt ccagctgccc
tacaatgggg tggctcctgg ccagacgtg gccaaactca acatcacca tagcacctgt
gagtcagta agcaactca catgcctac gacgtcacct acagcctggc ctgcttccgc
tgtgtcgtca acctttctt gtacgccttc ataggcgtca agttccgcaa cgtctcttc
aagctcttca aggacctggg ctgcctcagc caggagcagc tccggcagtg gtcttctgt
cggcacatcc ggcgtcctc catgagtgtg gagggcggaga ccaccaccac cttctccca
taggcgactc ttctgcctgg actagaggga ccttccccag ggtccctggg gtggggatag
ggagcagatg caatgactca ggacatcccc ccgccaaaag ctgctcaggg aaaagcagct
ctccctcag agtgcaagcc ctgctccaga agttagcttc accccaatcc cagctacctc
aaccaatgcc gaaaagaca gggctgataa gctaacacca cagagacaac actgggaaac
agaggtctatt gtccctataa ccaaaaactg aagtgaaaag tccagaaaact gttcccaact
gctggagtga aggggccaag gaggtgtagt gcaaggggctg tgggagtggc ctgaagagct
ctctgaatga acctctggc tcccacaga ctcaaatgtc cagaccagct cttccgaaaa
ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaagaaaaa
cggacatcag ctgttcaaac aaactctctg aacctctcc tccatcgttt tcttcaactgt
cctccaagcc agcgggaatg gcagtgcca cgcgcgccta aagcacact catccctca
cttgcgcgt cgcctccca ggtctcaac agggagagt gtggtgtttc ctgcaggcca

Homo
sapiens

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|----|-----|--------------------------------|-------------|---|--------------|
| 68 | 741 | C-C Chemokine Receptor 7 | NP_001829.1 | <p>ggccagctgc ctccgctga tcaaagccac actctgggct ccagagtggg gatgacatgc actcagctct tggctccact gggatgggag gagaggacaa gggaaatgtc agggcgggg aggtgacag tggccgcca aggccacag cttgtcttt gtctttgtc acaggactg aaaactctc ctcatgtct gcttcgatt cgttaagaga gcaacatttt acccacacac agataaagt tcccttgag gaaacaacag ctttaaaag MDLGPMSV LVVALLVIFQ VCLQCDEVTD DYIGNTTVD YTLFESLCK KDVRFKAWF P LPINYSIICF VGLLGNGLV LTYIYFKRLK TMTDTYLLNL AVADILFLT LPFWAYSAAK sapiens SWVGVHFCF LIFAIYKMSF FSGMLLLICI SIDRYVAIVQ AVSAHRHRAR VLLISKLSCV GIWILATVLS IPELLYSDLQ RSSEQAMRC SLITEHVEAF ITIQVAQWVI GFLVPLILAMS FCYLVIRTL LQARNFERNK AIKVIIAVVV VFIVFQLPYN GVVLAQTVAN FNITSSTCEL SKQLNIAYDV TYSLACVRCC VNPFLYAFIG VKFRNDLEKL FKDLGCLSQE QLRWSSCRH IRRSMSVEA ETTTFSP</p> | Homo sapiens |
| 69 | 742 | C-C Chemokine Receptor 8 | AI733823 | <p>TTTAAATTTA AAAACTTTAT TGGAAATAGCA TGTTAGCAGC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTGCGCA ACAACTAGAA CAGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCGTGCGCTG CAACTATGTT CAGTGATGAT GATAAACAAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAAATGATGT CTGACCTCCT TATATATGTA AAAAATATAC CTTCAAGATC CGTCAGTAAG CTGGAAGAAG TGGATGTTGA AGTTTTTAAC ATCGATGATG GGTCTCCAGT TGTTCATCAA CCCATGTTGA AATAGCTGAA CGGTTCTGAA TCAAAGTGA TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCTT ACAGATTATA TGGTGAAT ACCTGATGGG CTTCTTGAAG GACTGAGCA GTGTGATTC AAAACAGAAC AAGAAATCAC GTCAGTTTAT TGCCAAATAT CTGTGTGCA ACCTTAGAA CACATGACT GGAGACACAG TTCTGCGTGC A CTGGCACAC CTTCCAGCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGTATATCAA GTGAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAATCCAT CAATAAGCTG AAAGAAATAG ATATCAAAGA ATATTTTAA ATCATTAATG AGGCTCCAGT TATTCATTCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCTATATA ATGACACAGT GAAAA</p> | Homo sapiens |
| 70 | 742 | C-C Chemokine Receptor 8 | LG6770 | <p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaac aaagctgtgc actaagggtcc cgtgccttg atggattata cacttgacct cagtgtaga acagtgaccg actactacta ccctgatatc ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagtgtgt ccttgctgtc ttttattgcc tccgtgttgt attcagctct ctgggaaaca gctgggtcat cctggctcctt gtggtctgca agaagctgag gagcatcaca gatgatatac tcttgaaacct ggcctgtct gacctgcttt ttgtctctc cttcccttt cagacctact atctgtgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgtc ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtggac aggtacctgg cgtgtgtcca tgccgtgtat gccctaaagg tgaggacgat caggtgggc acaacgctgt gctgggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatgggtgtt ctacagtgtt attcatthta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttaccatct ttatgtctg ctacattaaa</p> | Homo sapiens |
| 71 | 742 | C-C Chemokine Receptor 8 | NM_005201 | | Homo sapiens |

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|----|--------------------------------|-------------|--|-----------------|
| 72 | C-C Chemokine Receptor 8 | NP_005192.1 | <p>atctgcacc agctgaagag gtgtcaaac cacaacaaga ccaaggccat caggttggtg ctcatgtgg tcatgtcat tttactttc tgggtcccat tcaactgggt tcttttcctc acttcctgc acagtatgca catcttggtg gtagtagca taagccaaca gctgacttat gccaccatg tcacagaaat catttccttt actcactgct gtgtgaacc tgttatctat gcttttggtg gggagaagtt caagaaacac ctctcagaaa tatttcagaa aagttgcagc caaatcttca actacttagg aagacaaatg cctagggaga gctgtgaaa gtcatcatcc tgccagcagc actcctcccg ttctctccag ctgagctaga ttttggtagg atcaatgaag actaaatata aaaaacattt tcttgaatgg catgctagta gcagtggca aaggtgtggg tgtgaaaggt ttccaaaaa agttcagcat gaaggtgctc atatgttg ttgccaacac ttaaacaca atgactggag acatagtgtg gcatgctgg cacaacatca agcctgtgat tgtgtttatt gatgatgttg aacaagtgtt aactttaag gattctgtat gccaaagtga aaaaaagat gtctgacctc ctcatatgc aaaaatatac cttcagagac tgtcagtagg ctggaagaag tggatattga agtttgaca tcaatgatga ggctccagtt gtctatgcat tgactgatgg tgaatggct gtagtgattc tgaatcaagg tgattgtgat tatagtgaca atgaagatga tgcatttaatt actgcataaa aagtgctctg agatgacatg gtgaaaaat ttgacaggct tatggaagga ctacagcagc acgcatctcat aacagaacaa gaaattatct cagcttataa aatcaaacag agacttctag acaaaaacca ttgttgatga ggcagatgcc tctagaagag acgtttaaaa gccatcaaac acaatgctc atcttccctg gaggaccac ttctgatcc ctcaactgtg tctgatgtt ctctcatgt aagaaataaa aataaaaaat aaaaaatat atattggtat gtaactacag gaaaaataa aaaaatatat agtggacagt aacctttcaa tcaaaactca gtatcataag tagagatga aaacttgccg ttattgtatg ttgttattaa cagctgatac aggtattctg ctgatgctac tgctgcctag ttaccatgaa cagttttt cactattaat ggtgcgtcat atttttact ttttaagtact tacgtgtgag taagtgaag aaaaatgattg ctatcagta gtatcaatga tttactcaat atctgaatca ccttgattca gaaccatttc agctgtttca ccatcagtea atgaataaca gcctcattga tgtcaaaaac tccaatatcc actctttca gctactgta gactctgga gtatactttt tgcatatgta aggaagtcag atttttttt</p> <p>VVCKKLSIT DVYLLNALS DLLFVSFPF QTYLLDQW FETVMCKVS GFYIGFYSS MFFITLMSVD RYLAHVAVY ALKVRTIRMG TTICLAVWLT AIMATIPLLV FYQVASEDGV LQYSFYNQ TLKWKIFTNF KMNILGLLIP FTIFMFCYIK ILHLKRCQN HNKTKAIRLV LIVVIASLLF WVENVVLFL TSLHSMHILD GCSISQQLTY ATHVTEIISF THCCWNPVIY AFVGEKFKKH LSEIFQKSCS QIFNYLGRQM PRESECKSS CQHSSRSSS VDYL</p> <p>cccaaccaca gcacaaagc agaggggagc gagcacacc accagcagc cagagcacca A gccagccat ggtccttgag tggagtgc accaagtgc aatgacgcc gaggttgccg ccctcctgga gaacttcag cttctctatg actatggaga aaacagagat gactcgtgct gtactctccc gccctgccc caggacttca cctgaactt cgaccggcc tctcgtgccg ccctctacag cctcctctt ctgctggggc tgbtgggcaa cggcgcggtg gcagccgtgc tgtgtgagccg gcgacagcc ctgagcagca cgcacactt cctgctccc ctgagctgtg cagacacgct gctggtgctg acactgcgc tctgggcag gtgacgtgc gtccagtggtg tctttggctc tggcctctgc aaagtggcag gtgcctctt caacatcaac ttctacgcag</p> | Homo sapiens |
| 73 | CXC Chemokine Receptor 3 | NM_001504 | | Homo sapiens |

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|----|--------------------------------|-------------|--|-----------------|
| 74 | CXC Chemokine Receptor 3 | NP_001495.1 | <p>gagccctcct gctggccctgc atcagcttttg accgctacct gaacatagtt catgccacccc agctctaccg ccggggggccc ccggcccgccg tgacctcac ctgcctggct gtctgggggc tctgctcgt tttcgccctc ccagacttca tcttctctgc gggccaccac gacgagcgcc tcaacgccac ccactgccaa tacaacttcc cacagtggg ccgcaecggt ctgcggtgc tgagctggt gctggctttt ctgctgccc tgctgttcac ggcctactgc tatgccaca tcttgccgt gctgctggtt tccaggggcc agcgcgctc gggggccatg cggctggtgg tgggtgctgt ggtggccttt gccctctgct ggaccccta tcaactgggt gtgctggtgg acatcctcat ggacctggc gcttggccc gcaactgtgg ccgagaaagc aggtagacg tgcccaagtc ggtcacctca ggcctgggt acatgcactg ctgcctcaac ccgctgctct atgcttttgt aggggtcaag tccgggagc gtagtggtat gctgctcttg cgcctgggt gcccacaaca gagaggctc cagaggcagc catgctcttc ccgcgggat tcatcctggt ctgagacctc agaggctcc tactcgggt tgtgaggcgg gaatccgggc tccccttgc ccacagctc gacttcccgc cattccaggc tcttccctcc ctctgcggc tctgctctc cccaatctc tgcctcccg gactcactgg cagcccgag accaccaggt ctcccggaa gccacctcc cagctctgag gactgcacca ttgctgtcc ttagctgcca agccccatcc tgccggccga ggtggctgcc tggagcccca ctgctctct catttgaaa ctaaaacttc atcttcccca agtcgggga gtacaagca tggcgtagag ggtgctgccc catgaagcca cagcccgcc ctccagctca gcagtactg tggccatggt ccccaagacc tctatatgtg ctcttttatt tttatgtcta aaatcctgct taaactttt caataacaa gatcgtcagg acaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa</p> <p>MLEVSDHQV INDAEVAAL ENFSSSYDYG ENESDSCCTS PPCQDFSLN FDRAFLPALY P SLFLGLLG NGAVAAVLLS RRTALSTDT FLHLAVADY LLVLTPLWA VDAAVQWVFG SGLCKVAGAL ENINFAVAGL LLACISFDY LNIVHATQY RRGPPARVTL TCLAVWGLCL LFALPDFIFL SAHDERLNA THCQYNFPQV GRTALRVLQL VAGFLPLLV MAYCYAHILA VLLVSRGQR IRAMRLVVV VVAFLCWTP YHLVVLVDIL MDLGALARNC GRESRVDDVAK SVTSGLGVMH CCLNPLLYAF VGVKFRERMW MLLRLGCPN QRGQRQPS SRRDSSWSET SEASYSGL</p> | Homo sapiens |
| 75 | CXC Chemokine Receptor 4 | NM_003467 | <p>gtttgttggc tgcggcagca ggtagcaaaag tgacgccgag ggctgagtg ctccagtagc A caccgcatct ggagaaccag cggttaccat ggaggggagc agtatataca ctccagataa ctacaccgag gaaatgggct caggggacta tgactccatg aaggaaccct gtttccgtga agaaaaatgt aatttcaata aaatcttctt gccaccatc tactccatca tcttcttaac tggcattgtg ggcaatggat tggctatcct tggcatgggt taccagaaga aactgagaag catgacggac aagtacaggc tgcacctgtc agtggccgac ctctcttttg tcatcagct tccctcttgg gcagtgtatg ccgtggcaaa ctgtactttt gggaacttcc tatgcaaggc agtccatgtc atctacacag tcaactcta cagcagtgtc ctatccttg ccttcatcag tctggaccgc tacctggcca tgcgtccagc caccacagc cagaggccaa ggaagctgtt ggctgaaaag gtggtctatg ttggcgctcg gatccctgcc ctctgctga ctattccccg cttcatcttt gccaacgtca gtgaggcaga tgcagatat atctgtgacc gcttctaccc caatgacttg tgggtggttg tgttccagtt tcaagcacatc atggttggcc ttatcctgcc tgggtatgtc atcctgtcct gctattgcat tatcatctcc aagctgtcac actccaaggg ccaccagaag cgaaggccc tcaagaccac agtcatcctc atctggtctt tcttcgctg</p> | Homo sapiens |

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|----|--|-------------|-----|--|-----------------|
| 76 | CXC Chemokine Receptor 4 | NP_003458.1 | 753 | <p>ttggctgctt tactacattg ggatcagcat cgactccttc atcctcctgg aaatcatcaa gcaaggggtg gagtttgaga acactgtgca caagtggatt tccatcacgg agggccctagc tttctccac tgggtgtctga accccatcct ctatgctttc ctggagacca aatttaaaac ctctgcccag cagcactca cctctgtgag cagaggggtc agcctcaaga tccctctcaa aggaaagcga ggtggacatt catctgttc cactgagctc gactcttcaa gttttcactc cagctaacac agatgtaaaa gactttttt tatacagata ataatctttt tttaagttac acatttttca gatataaaa actgaccaat attgtacagt ttttattgct tgttgagattt ttgtcttggt tttctttagt tttgtgaag ttttaattgac ttatttatat aaattttttt tgtttcatat tgatgtgtgt ctaggcagga cctgtggcca agttcttagt tgctgtatgt ctcgtggtag gactgtagaa aagggaactg aacattccag agcgtgtagt gaatcacgta aagctagaaa tgatccccag ctgtttatgc atagataatc tctccattcc cgtggaaact ttttcctgtt cttaaagactg gattttgctg tagaagatgg cacttataac caaagcccaa agtggtagt aaatgctggt ttttcagttt tcaggagttg gttgatttca gcacctacag tgtacagtct ngtattaaagt ttttcaataaa agtacaatgtt aaacttactt agtgttatg MEGSIYTS D NYTEEMSGD YDSMKPCFR EENANFNKIF LPTIYSIIFL TGIVGNGLVI P LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAVDAVA NWYFGNFLCK AVHVIYTVNL YSSVLI LAFI SLDRYLAI VH ATNSQRPRL LAEKVYVGV WIPALLLTIP DFIFANVSEA DDRYICDRFY PNDLWVWFQ FQHMVGLIL PGIVILSCYC IISKLSHSK GHQKRKALKT TVILILAFEA CWLPYIGIS IDSFILLEII KQCEFENTV HKWISITEAL AFFHCCLNPI LYAFLGAKFK TSAQHALLTSV SRGSSLKILS KGRGGHSSV STESSSFH SS</p> | Homo sapiens |
| 77 | Complement Component 3a Receptor 1 | NM_004054 | 755 | <p>atggcgctct tctctgctga gaccaattca actgacctac tctcacagcc atggaatgag A ccccagtaa tctctccat ggcatctctc agcttactt tttactaggg attgccaggc aatgggctgg tgggtgggtt ggctggcctg aagatgcagc ggacagtga cacaatttgg ttctccacc tcaacttggc ggactctctc tgggtcctct cctggcctt ctgctggct cactggctc tccagggaca gtggccctac ggaggttcc tatgcaagct catccctcc atcattgtcc tcaacatgtt tgccagtgc ttcctgctta ctgccattag cctggatcgc tgtcttggtg tattcaagcc aatctggtg cagaatcac gcactgtagg gatggcctgc tctatctgtg gatgatctg ggtgggtggt tttgtgatgt gaattcctgt ttcgtgttac cgggaaatct tactacaga caacataat agatgtggct acaaatgttg tctctccagc tcattagatt atccagactt ttatggagat ccactagaaa acaggtctct tgaataacatt gttcagccgc ctggagaaat gaatgatagg ttgatcctt cctcttcca acaaatgat cactcttga cagtcaccac tgtcttccaa ctcaaacat tcaaaagacc tctgcagat tcaactcccta ggggttctgc taggttaaca agtcaaaaac tgtattctaa tgtatttaaa cctgtgtatg tgggtctacc taaaatcccc agtgggttcc tattgaaga tcaagaaacc agccacttgg ataactctga tgttttctc tctactact taaagctgtt ccttagcgct tctagcaatt cctctacga gtctgagcta ccacaaggtt tccaggatta ttacaattta ggccaattca cagatgacga tcaagtgcga acacccctcg tggcaataac gatcactagg ctagtgggtg gtttctctgt gccctctgtt atcatgatag cctgttacag cttcattgtc ttccgaatgc aaaggggccc cttcgccaag tctcagagca aaacctttcg agtggccgtg gtgggtgggtg ctgtcttct tgtctgctgg actccatacc acatttttgg agtctctgca tgtcttactg acccaaaaac tcccttgggg aaactctga tgcctggga tcatgtatgc</p> | Homo sapiens |

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|----|-----|--|-------------|---|-----------------|
| 78 | 755 | Complement Component 3a Receptor 1 | NP_004045.1 | <p> attgctctag catctgcaa tagttgcttt aatcccttcc tttatgcctt cttggggaaa gatttagga agaaagcaag gcagtcatt caggaattc tggaggcagc cttcagttag gagtcacac gttccacca ctgtccctca acaaatgtca tttcagaag aatatgtaca actgtgtga MASFSAETNS TDLSQPMNE PPVILSMVIL SLTFLGLPG NGLVLWVAGL KMQRVTNTIW P FLHLTLADLL CCLSLPFLSLA HIALQGMPPY GRFLCKLIPS IIVLNMFPASV FLTLAISLDR CLVVEKPIWC QNHRNVGMAC SICGCIWVA FVMCIPFVY REIFTDNHN RCGYKFLSS SLDYPDFYGD PLENRSLENI VQPPGEMNDR LDPSSFQND HPWTVPTVFQ PQTFFPPSAD SLPRGSARLT SQNLYSNVEK PADVSPKIP SGFPIEDHET SPLDNSDAFL STLHLFPESA SSNSFYSEL PQGFQDYNL QGFTDDQVP TPLVAITR LVVGFLLPSV IMIACYSFIV FRMQGRFAK SQSKTRVAV VVAVFLVCW TPYHIFGLS LITDRETPLG KTLMSWDHVC IALASANSCE NPFLYALLGK DFRKKARQSI QGILEAAFSE ELTRSTHCPN NVISERNST TV </p> | Homo sapiens |
| 79 | 758 | Complement Component 5a Receptor 1 | NM_001736 | <p> agggggagcc caggagacca gaacatgaac tccttcaatt ataccacccc tgattatggg A cactatgatg acaaggatac cctggacctc aacaccctg tggataaaac ttctaacacg ctgcgtgttc cagacatact ggccttggtc atcttgcag tcgtcttctt ggtgggagtg ctgggcaatg cctggtggtt ctgggtgacg gattcgagg ccaaggagc catcaatgcc atctggttcc tcaacttggc gtagcgacgac ttcctctctt cctggcgctg cccatcttgg ttcacgtcca ttgtacagca tcaccactgg cctttggcg agcatctgc tctgggccac catcagcgcc ccctccctca tcctgctcaa catgtacgcc agcatctgc tctgggccac catcagcgcc gaccgcttc tgctggtgtt taaccctatc tgggtgcaga acttccgag ggcgggcttg gcctggatg cctgtgcccgt ggcttgggtt ttaccctgc tctggacct accctcttc ctgtaccggg tggtcgggga ggagtacttt ccacaaagg tgtgtgttg cgtggactac agccacgaca aacggcggga gcgagcgtg gccatcttc gctgggtctt gggcttctctg tgccctctac tcacgtcac gattgttac actttcatcc tgetccggac gtggagccgc agggccacgc ggtccaccaa gacactcaag gtgtgtgtg cagtgtgtgc cagtctctt atcttctggt tgcctacca ggtgacgggg ataagtatgt ccttccctga gccatcgtca cccaccttc tgctgctgaa taagctggac tccctgtgtg tctcttgc ctacatcaac tgctgcatca acccatcat ctactgtgtg gccggccagg gcttccagg cgcactgagg aaatccctcc ccagcctct ccggaacgtg ttgactgaag agtccgtgtt tagggagagc aagtcattca cgcgtccac agtggacact atggccacga agaccaggc agttaggcg acagcctcat gggccactgt ggcgcgatgt cctctctt cccggccatt cctctcttg tttccactc actttctgtg gtaggtgtt acctagcta actaactct cctcatgttg cctgtcttcc ccagactgt cctctctt ccagcgggac tcttctcat cctctcatt tgcaagggtga acactctt ctaggagga caacagaaac cgtgtatctt ggtatattcc catctttcca tcccaggctt ttgaaaaa gaatacagc aagtagaag attctcgctt atatggcaat aggtgtgaac agggaaactca gaatacagc aactggaatc tcaaaagttc aaaaaaatgt attatttta tggcaagtgt gaaaatagt tctaagctct ttaattttaa tttgggacaa aacagaagtc catggagtta tctaagctct cgcctgta cccagaactt tgggaggtc aaagaaaatt aggcctgagag cagtggctca cgcctgta cccagaactt tgggaggtc aggtgggttg atcacctgag gtcaagagt cccagaccag ctggccagca tggtagaacc </p> | Homo sapiens |

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|----|-----|---|-------------|---|-----------------|
| 80 | 758 | Complement Component 5a Receptor 1 | NP_001727.1 | <p>ccgtctgtac taaaaatatac aaaaattaac tgggcatggt agtgggtgcc tgtaatccca gctacttggg aggtgaggt gggagaattg ctggaacctt ggaggtggag gttgtgtga gccatgatcg caccactgca cttagctcg ggtgaccgag ggaggtctcg tctcaaaagc aaagcaaaaa caaaaacaaa aacacctaaa aaacctgcaq ttttgtttgt actttgtttt taaattatgc tttctatttt gagatcattg caaactcaac acaattgtaa gtaatgatac agagggatct tgtgtacctt tcaccagcc tccccaatg gcaacatctt gcaaaactac aatgtagtct cataaccagg atattgacat tgatacatg aagatacagg acatttccat caccacagg atccccagg atcccccttc tgcccacttc cctccacccc cacaccccag ccgtgtccct aaccctggc aaccaggaat ccactctcca tttctataat gttgtcattt caagaatgtt attcaatgga atcatatagt atgtaacctg ttttgagctt aaaaaaaaa gtatacatga ctttaatgag gaaaaataaa atgaatatg aaaaaaaaa ctttagag</p> <p>MNSENYTTPD YGHYDDKDTL DLNTPVDKTS NTLRVPDILA LVIFAVVFLV GVLGNALVVM P VTAFEAARTI NAIWFLNLAV ADFLSCLALP ILFTSIVQHH HWPFGGAACS ILPSLILLNM YASILLLATI SADRELLIVFK PIWCQFRGA GLAWIACAVA WGLALLLTIP SFLYRVVREE YFPPKVLGV DYSHDKRRER AVAIVRLVLG FLWPLLTITI CYTFILLRTW SRRATRSKT LKWVAVVAS FFIFWLPYQV TGIMMSFLEP SSPTFLLLNK LDSLCVSEFAY INCCINPIIY VVAGQGFQGR LRKSLPSLLR NVLTEESVVR ESKSFRSTV DTMAQKTQAV</p> | Homo sapiens |
| 81 | 767 | Calcitonin Receptor- like Receptor | NM_005795 | <p>gcacgagga acaacctctc tctctscagc agagagtgc acctcctgct ttaggacctt A caagctctgc taactgaatc tcatcctaatt tgcaggatca cattgcaaaq ctttcactct ttcccacctt gcttgtgggt aaatctcttc tgcggaatct cagaaagtaa agttccatcc tgagaatatt tcacaaagaa tttccttaag agcttgagcc ggtcttgacc cctggaaattt aagaaattct taaagacaat gtcaaatatg atccaagaga aaatgtgatt tgagcttggg gacaatttg catatcgtct aataataaaa acccatacta gcctatagaa acaaatattt gaataataaa aaccatact agcctataga aaacaatatt tgaagattg ctaccactaa aaagaaaaact actacaaact gacaaagactg ctgcaaaact caattgggtca ccacaaactg acaaggttgc tataaaacaa gattgctaca acttctagt tatgtttatc agcatatttc atttgggctt aatgatggag aaaaagtga cctgtattt tctggttctc ttgccttttt ttatgattct tgttacagca gaattagaag agagtccctga ggactcaatt cagttgggag ttactagaaa taaaatcatg acagctcaat atgaatgta ccaaaagatt atgcaagacc ccattcaaca agcagaaggc gtttactgca acagaacctg gtagtgatgg ctctgctgga acgatgttgc agcaggaact gaatcaatgc agtctgccc tgattacttt caggactttg atccatcaga aaaagttaca agatctgtg accaagatgg aaactggttt agacatccag caagcaacag aacatggaca aattataccc agtghtaagt taacaccccac gagaaagtga agactgcaact aaattgttt tacctgacca taattggaca cggattgtct attgcatcac tgcttatctc gcttggcata ttcttttatt tcaagagcct aagttgcca aggattacct tacacaaaa tctgttcttc tcaattgttt gtaactctgt tgtaacaatc attcacctca ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgttagttgc aaagtgtccc agttcatcca tctttacctg atgggctgta attactttg gatgtctgt gaaggcattt acctacacac actcaatttg gtggccgtgt ttgcagagaa gcaacattta atgtgtgatt atcttcttgg ctggggattt ccaatgattc ctgcttgtat acatgccatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgataccca tctcctctac attatccatg</p> | Homo sapiens |

| Accession | Gene | Protein | Species |
|-----------|-----------------------------------|-------------|--------------|
| 82 | Calcitonin Receptor-like Receptor | NP_005786.1 | Homo sapiens |
| 767 | | | |
| 83 | Cannabinoid Receptor 1 | NM_001840 | Homo sapiens |
| 832 | | | |

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|----|-----|---------------------------|-------------|--|-----------------|
| 84 | 832 | Cannabinoid Receptor 1 | NP_001831.1 | <p> ccagcagac caggtgaaca ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtggggagaa cttcatggac atagagtgtt tcatggctct gaacccagc cagcagctgg ccattgcagt cctgtccctc acgctgggca ccttcacggt cctggagaac ctcttggtgc tgtgcgtcat cctccactcc cgcagccctc gctgcagcc ttctaccac ttcatcgga cctggcgggt ggcagacctc ctggggagtgt tcatctttgt ctacagcttc attgacttcc acgtgttcca ccgcaaatg agcgcgaacg tgtttctgtt caaatgggt ggggtcacgg cctccttcac tgcctccgtt ggcagcctgt tcttcacagc catcgacagg tacatatcca ttcacaggcc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcgtttt gcctgatgtg gaccatagcc attgtgatcg ccgtgctgcc tctctgggc tggaaactcg agaaactgca atctgtttgc tcagacattt tccacacat tgatgaaacc tacctgatgt tctggatcgg ggtcaccagg gtaactgttc tgttcatcgt gtatgcgtac atgtatatc tctggaaggc tcacagccac gccgtccgca tgattcacgc tggcaccag aagagcatca tcatccacac gtctgaggtt gggaaggtag aggtgacctg gccagacca gccgcgatgg acattaggtt agccaagacc ctggtcctga tcttggtgtt gttgatcatc tcttggtggc ctctgcttgc aatcatggtg tatgatgtct ttgggaagt gaacaagctc attaagacgg tgtttgcatt ctgcagtatg ctctgcctgc tgaactccac cgtgaacccc atcatctatg ctctgaggag taaggacctg cgcacgctt tccggagcat gtttccctct tgtgaaggca ctgcgcagcc tctggataac agcatggggg actcggactg cctgcacaaa cagcaaaaa atgcagccag tgttcacagg gccgcagaaa gctgcacaa gagcacggtc agatgtgcca aggtaacctt gtctgtgtcc acagacacgt ctgccgaggc tctgtgagcc tgatgcctcc ctggcagcac aggaataaaa tttttttttt taagtcaaa atctagaaga gtctattgtc tcttgggtta tattttttta actttaccat gctcaatgaa aaggtgatgt ccacatgtca cttattgtct tagttccgt ttgggctaact cttccggggt tcgtaggaaa ccttt </p> | Homo sapiens |
| 85 | 833 | Cannabinoid Receptor 2 | NM_001841 | <p> VLSITLGTFT VLENLLVLCV ILHSRLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHV HRKDSRNVEL FKLGVTASF TASVGSLELT AIDYISIHRL PLAYKRIVTR PKAWAFCLM WTTAIVIAVL PLLGNCEKL QSVCSDFPH IDETYLMFWI GVTSVLLLFV VYAYMYILWK AHSNAVMIQ RGTQKSIILH TSEDGKVQVT RPDQARMDIR LAKTLVLILV VLIICWGPLL AIMVYDVFGK MNKLIKTFEA FCSMLCLLNS TVNPIIYALR SKDLRHAFRS MPFSCGTAQ PLDMSMGDS CLHKHANNA SVHRAESCI KSTVKIAKVT MSVSTDTSAE AL caggtccttg gagaggacag aaaaacactg gactcctcag cccccggcag ctcccagtcg A ccagccacc ccaacacac ccaagcctt ctagacaagc tcagtggagt ctgaagggcc tccccatgg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggtat tccaacccta tgaaggatta catgatcctg agtggtcccc agaagacagc tgttgcgtgtg ttgtgcactc ttctggcctt gctaaagtgc ctggagaacg tggctgtgct cctatctgac ctgtcctccc accaactccg ccggaagccc tcatcctgtt tcatggcag ctgggctggg gctgacttcc tggccagtgt ggtcttttga tgcagctttg tgaatttcca tgttttccat gggtgtggatt ccaaggctgt cttctgctg aagattggca gcgtgactat gaccttcaca gcctctgtgg gtacctcctc gctgaccgcc attgaccgat acctctgctt gcgtatcca </p> | Homo sapiens |

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|-----|---------------------------|-------------|--|-----------------|
| 86 | Cannabinoid Receptor 2 | NP_001832.1 | <p>ccttctctaca aagctctgtct caccctgtgga agggcactgg tgaccctggg catcatgtgg gtcctctcag cactagtctc ctacctgccc ctcatgggat ggacttgctg tccagggccc tgctctgagc ttttcccaact gatccccaat gactacctgc tgagctggct cctgttcac ccttctctct tttccgggaat catctacacc tatgggcctg ttctctggaa ggcccatcag catgtggcca gcttgtctgg ccaccaggac aggcaggtgc caggaatggc ccgaatgagg ctggtatgta ggttgcccaa gacctaggg ctagtgttgg ctgtgtctct catctgttgg ttcccaagtc tggccctcat ggcccaagc ctggccacta cgctcagtga ccagggtcaag aaggcccttg ctttctgctc catgtgtgc ctcatcaact ccattgltcaa cctgtctcatc tatgtcttac ggagtggaga gatccgctcc tctgcccac actgcccggc tcactggaag aagtgtgta gggcccttgg gtcagaggca aaagaagaag ccccgagatc ctacgtcacc gagacagagg ctgatgggaa aatcactccg tggccagatt ccagagatct agacctctct gattgctgat gaggcctctt cccaatttaa acaactcaag tcagaaatca gtteactccc tggaagagag agagggtctc tggcactctc tcttactta aaccagtccc agacacctag acacggacc ctttttctg atgagtgttg ggactgaact ctggaagaca gcctggcctt gccacctgc acacagtctg ttggataggt agggccacga ggagtagcca gtagggcgag acacaaaaa gcttgggaca gggtcagtac aagtcaggac aggttctatg cctgcactct ccagagacca ccaggagcca aagcagcct ccaggcccg caatgaggga cttggagaa atctgagaag aatgggttgt tctcttggga agtcagggtta tcagatgga tggacatcca ggtctctct ctgcctaatt gtcaaggcct ccttggctct ggagctatga aagccccac tttcaagtc ccttggccac tgaggaccga ggactatgct atgatgagga ttaagtggtt gactgtctc tttcagatg aatgacaag ccttca</p> | Homo sapiens |
| 833 | | | <p>MEECWTEIA NGSKDGLSN PMKDYMIISG PQKTAVALC TLLGLLSALE NVAVLILS P SHQLRRKPSY LFISGLAGAD FLASVVFACS FVNHFVHGV DSKAVFLIKI GSVTMTFTAS VGSLLLTAD RYLCLRYPPS YKALLTRGRA LVTGLIMTVL SALVSYLPLM GWTCPPRCS ELEPLIPNDY LLSWLLFTAF LFSGIITYYG HVLWKAHQHV ASLSGHQDRQ VPGWMARMRLD VRLAKTLGLV LAVLLICWFP VLALMAHSLA TTLSQVKKKAF FCSMLCLI NSMNPVIYA LRSGEIRSSA HHCLAHWKKC VRGLGSEAKE EAPRSSVTET EADGKITPWP DSRDLDSDC agcctgtgga gacgggacag ccctgtccca ctcactcttt ccctggcgc tcctggcggc A agctccaac atgggaggcc gcgtctttct cgcattctgt gtctggctga cctggccgg agctgaaacc caggactcca gggcctgtgc ccgtgtgtgc cctcagaact cctcgtgtgt caatgccacc gcctgtcgt gcaatccagg gttcagctct tttctgaga tcatcaccac cccagcggag actgtgacg acatcaacga gtgtgcaaca ccgtcgaaaag tgtcatgcgg aaaaattctcg gactgctgga acacagaggg gagtacgac tgcgtgtgca gccgggata tgagcctgtt tctggggcaa aaacattcaa gaatgagagc gagaacacct gtcaagatgt ggacgagtc agctccgggc agcatcagt tgacagatcc accgtctgt tcaacaccgt gggttcatac agctgccgct gccgccagg cttgaagccc agacacggaa tcccgaataa ccaaaaggac actgtctgtg aagatatgac tttctccacc tggaccccc cccctggagt ccacagccag acgcttctcc gattcttga caaagtccag gacctgggca gagactccaa gacaaagctca gccgaggtca ccatccagaa tgtcatcaaa ttggtggatg aactgatga agctcctgga gacgtagagg cctggcgcc acctgtccgg cacctcatag ccacccagct gctctcaaac ctggaagata tcatgaggat cctggccaag agcctgccta aaggccctt</p> | Homo sapiens |
| 922 | Leukocyte Antigen CD97 | NM_001784 | | |

cactacatt tcccttcga acacagagct gaccctgat atccaggagc ggggggacaa
 gaacgtcact atgggtcaga gcagcgacg catgaagctg aatgggctg tggcagctgg
 agccaggat ccaggcccg ccgtggcggg cactctctc atccagaaca tgacgacatt
 gctggccaat gcctccttga acctgcattc caagaagcaa gccgaactgg aggagatata
 tgaagcagc atccgtggtg tocaactcag acgctctct gccgtcaact ccatcttct
 gagccacaac aacaccaag aactcaactc cccactctt tgcgcttct cccacttga
 gtccctccgag ggggaggcgg gaagagacc tctggcaag gacgtgatgc ctggggccac
 gcaggagctg ctctgtgct tctggaaag tgacagcagc agggagggc actggggccac
 cgaggtctgc caggtgctgg gcagcaagaa cggcagcac acctgccaat gcagccacct
 gagcagcttt acgataccta tggctcatta tgacgtggag gactggaaagc tgacctgat
 caccagggtg ggaactggcg tgtcactct ctgctgctg ctgtgcatcc tcacttctc
 gctggtgctg cccatccagg gctcgcgac caccatacac ctgcacctct gcatctgct
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 gcgctgccg ctggtggcg gctgtctgca ctactgttc ctggcgctc tctgtggat
 gagctcgaa ggctggagc tctactttct tgtgtgtgc gtgttccaa gccaggcct
 ggtacgcgc tggctctgct tgatcgcta tggcgtgcc ctgctcatcg tggcgctctc
 ggtgacctc tacagcaagg gctacggcg cccagatac tgcgtgttg actttgagca
 gggcttctc tggagcttct tgggacctgt gaccttcat atttgtgca atgtgtcat
 tttcgtgact acgtctgga agtcaactca gaagtttct gaaatcaatc cagacatgaa
 gaaataaag aaggcgagg cgctgacct cagcgccatc gcgcagctct tctgttggg
 ctgcacctgg gtcttggcc tgttcatctt cgaagctgg agcttgggtg tgacctatgt
 gtttaccatc ctcaactgct tgcaggcgc ctctctctac ctgctgcat gcctgctcaa
 caagaaggtt cgggaagaat accggaagt ggcctgccta gttgctggg ggaagcaagta
 ctcaaatc acctccacca cgtctggcac tggccacaat cagaccggg cctcagggc
 atcagagtc gccatatgaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac
 agcagcttg tacacgaaga ccatccatcc tccctcgtc caccactcta ctcctccac
 cctccctcc tgatccctg tgccaccagg agggagtgc agtatagtc tggcaccaaa
 gtccaggaca ccaagtggg tgagtcgga gcaactggtc ctgctgtgg ctgctctct
 gctccacctt gtgacccagg tggggacag ggcctggccc agggctgcaa tgcagcatgt
 tgccctggca cctgtggcca tctactggga cagactaagg gcgcttgtcc catcctggac
 tttctctc atgtcttgc tgcagaactg aagactag gcgtggggc tcaacttccc
 tcttaagcta agactgatgt cagagggccc atggcaggc ccttggggc cactgctga
 ggctcacggt acagagcct gccctgctg gcggggcagg aggttctcac tgtgtgaa
 gttgtagac gtgttaagt tgttttctc tgttaaat tttcagtggt gacacttaa
 attaaacaca tgcatacaga aaaaaaaaa a
 88 922 Leukocyte NP_001775.1 MGRVFLAFC VWLPLGAET QDSRCARWC PQNSCVNAT ACRCNPGFSS FSEIITPTE P Homo
 Antigen CD97 TCDDINECAT PSKVSGKFS DCWNTEGSD CVCSPGYEPV SGAKTFKNS ENTQDVDEC sapiens
 SSGHQCDSS TVCFNTVGSY SCRRPGWKP RHGIPNNQKD TVCEDMTFST WTPPGVHSQ
 TLSRFEDKVQ DLGRDSKTSS AEVTIQNVIK LVDELMEAPG DVEALAPPVR HLIATQLLSN
 LEDIMRIIAK SLPKGPFTYI SPSNTELTLM IQERGDKNVT MGQSSARMKL NWAVAAGAE
 PGPAVAGILS IQNMTTILAN ASLNLHKKQ AELEIYEISS IRGVLRLLS AVNSIFLSHN

| 89 | EMR1 Hormone NM_001974 Receptor | GI | A | Homo sapiens |
|----|---------------------------------|--|---|--------------|
| | | NTKELNSPIL FAFSHLESSD GEAGRDPPAK DVMGPRQEL LCAFWKSDSD RGGHWATEVC | | |
| | | QVLGSKNGST TQCSSLSSF TILMAHYDVE DWKLTITRV GLALSFLCLL ICILTFLLVR | | |
| | | PIQSRRTIHLHLCICLFVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LA AFCWMSLE | | |
| | | GLELYFLVVR VFQOGLSTR WLCLIGYGVPLIIVGVSAI YSKGYGRPRY CWLDFEQFL | | |
| | | WSFLGPVTFI ILCNAVIFVT TWKLTQKFS EINPDMKKLK KARALTITAI AOLFLLGCTW | | |
| | | VFGLEIFDDR SILVTYVFTI LNCLOGAFLY LLHCLLNKKV REEYRWACL VAGGSKYSEF | | |
| | | TSTSTGTGHN QTRALRASES | | |
| | | ctaaagtgtt ttcttttgaa tgacagaact acagcataat gcgtgggttc aacctgtcc | | |
| | | ttctctgggg atgttgtgtt atgcacagct gggaaggcca cataagacc acacgaaac | | |
| | | caaacacaaa gggtaataac ttagagaca gtaccttgg ccagcttat gccactgca | | |
| | | ccaatacggg ggacagttac tattgcatt gcaacaagg ttctctgtcc agcaatgggc | | |
| | | aaatcactt caaggatcca ggagtgcgat gcaaatatag agggaggtac aagtgcagct | | |
| | | cccagccctg tggctcctaac tcatcctgca aaacctgtc agggaggtac aagtgcagct | | |
| | | gtttagatgg ttctcttctt cccactggaa atgactgggt ccaggaag ccggcaatt | | |
| | | tctcctgtac tgatatcaat gagtgcctca ccagcagggt ctgacctgag cattctgact | | |
| | | gtgtcaact catgggaagc tacagttgca gctgtcaagt tggattcatc tctagaaact | | |
| | | ccacctgtga agcgtgaat gaatgtgcag atccaaagc ttgccagag catgcaactt | | |
| | | gtaataaac tgttgaaac tactctgtt tctgcaacc aggtttgaa tccagcagt | | |
| | | gccacttgag ttgccagggt ctcaaagcat cgtgtgaga tattgatga tgcactgaaa | | |
| | | tgtgccccat caattcaaca tgcaccaaca ctctggggag ctactttgc acctgccacc | | |
| | | ctggctttgc accaagcagt ggacagttga atttcacaga ccaaggagt gaatgtagag | | |
| | | atattgatga gtgccgccaa gatccatcaa cctgtgttcc taattctatc tgcaccaatg | | |
| | | ccctgggctc ctacagctgt ggctgcattg taggttttca tcccaatcca gaaggtctcc | | |
| | | agaaagatgg caacttcagc tgccaaaagg ttctcttcaa atgtaaggaa gatgtgatac | | |
| | | ccgataataa gcagatccag caatgccaaag agggaaaccgc agtgaacct gcatagtct | | |
| | | ccttttgtgc acaataaat aacatcttca gcgtttctgga caaagtgtgt gaaataaaa | | |
| | | cgaccgtagt ttctctgaag aatacaactg agagcttgtt cctgtgtctt aaacaaatat | | |
| | | ccatgtggac taaattcacc aaggaaagaga cgtctctcct gccacagtc ttctggaga | | |
| | | gtgtggaaag catgacactg gcatctttt ggaacccctc agcaaatgtc actcgggctg | | |
| | | ttcggggcga atacttagac attgagagca agttatcaa caagaatgc agtgaagaga | | |
| | | atgtgacgtt ggacttggtg gccaaagggg ataagatgaa gatcgggtgt tccacaattg | | |
| | | aggaatctga atccacagag accactgtgt tggcttttgt cctctttgtg ggcattggaat | | |
| | | cggttttaaa tgagcgcttc ttccaagacc accaggtccc ctgaccacc tctgagatca | | |
| | | agctgaagat gaattctcga gtctgtgggg gcataatgac tggagagaag aaagacggct | | |
| | | tctcagatcc aatcatctac actctgaga acgttcagcc aaagcagaag tttagagaggc | | |
| | | ccatctgtgt ttcttgagc actgatgtga aggttggaag atggacatc ttgtgctgtg | | |
| | | tgatcctgga agcttctgag acatatacca tctgcagctg taatcagatg gcaaatcttg | | |
| | | ccgttatcat ggcgtctggg gagctcacga tggacttttc ctgtacatc attagccatg | | |
| | | taggcattat catctccttg gtgtcctcgt tcttgccat cgcaccttt ctgctgtgct | | |
| | | gtcccatccg aaatcacaac acctacctcc acctgcacct ctgctgtgtg ctctcttgg | | |
| | | cgaagactct ctctctcgcc ggatacaca agactgagca caagacgggc tgcgccatca | | |

| | | | | | | | |
|----|----------------------------------|-------------|-----|-----|----------------------------------|--|--------------|
| 91 | EMR1 Hormone Receptor | NP_001965.1 | 941 | 965 | G Protein-Coupled Receptor GPR30 | <p> tgcgaggctt cctgcactac ctttttccttg cctgcttctt ctggatgctg gtggaggctg tgatactgtt cttgatggtc agaaacctga aggtggtgaa ttacttcagc tctcgcaaca tcaagatgct gcacatctgt gccttggtt atgggtgctc gatgctggtg gtggtgatct ctgccagtgt gcagccacag ggcataatgc tgcataatgc ctgctggtg aatacacaga cagggttcat ctggagtctt ttggggccag ttgacacagt tatagtgc aactcccttc tctgacctg gacctgttg atctgagc agaggcttc cagtgttaat gccgaagtct caagctaaa agacaccag ttactgacct tcaaggcctt tgccagctc ttcatccttg gtgctcctg ggtgctggg atttttcaga ttggacctt ggcaggtgc atggcttacc tgctcaccat catcaacag ctgcagggg cctcatctt cctcatccac tgtctgtca acggccaggt acgagaagaa tacaagaggt ggcactggt gaagacgaag ccagctccc agtccagac ctcaaggatc ttgctgtcct caatgccatc cgttccaaag acgggttaaa gcctttcttg ctttcaata tgctatggag ccacagtga ggcagtagt ttctgacag agcctaccct gaaatctct ctacagctaa catggaatg aggatccac cagccccaga accctctggg gaagaatgt gggggccgtc ttctgtggt tgcctgacct gatgagaaat cagacgttct tgcctcaaac gaccatttta ttctgtgct ctgcaacttc tcaattcca gagttctga gaacagacc aaattcaatg gcatagacaa gaacacctg ctaccatttt gtttctctc gccctgttg gtgcatggt ctaagcgtgc cctccagcg cctatcatc gctgacaca gagaacctc caataaatga ttgtgcct gtctgactga ttaccctaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa MRGFNLLFW GCCVMHSWEG HIRTRKPN KGNCRDSTL CPAYATCTNT VDSYYCTCKQ P GFLSSGNQH FKDPGVRCKD IDECSQSPQ CMGSSCKNL SGYKSCSLD GFSPTGNDW VPGKGNFNC TDINECLTSR VPHEHSDCVN SMGSYSCSQ VGFISSNSTD EDVNECADPR ACPEHATCNC TVGNYSCFCN PGFESSGHL SCQGLKASCE DIDECTEMCP INSTCTNTPG SYFCTHPGF APSSGQLNFT DQGECDRID ECRQDETCG PNSICTNALG SYSCGCIYGF HPNPGSQKD GNFSQORVLF KCKEDVIPDN KQIQOQEGT AVXPAYVSFC AQINNIFSVL DKVCENKTV VSLKNTTESF VPVLKQISMW TKFTKEETSS LATVFLESVE SMTLASFWKP SANVTPAVRA EYLDIESKVI NKECSEENV LTLVAKGDKM KIGCTIEES ESTETGVAF VSFVGMESVL NERFQDQHA PLTTSEIKLK MNSRVVGGIM TGEKKDGFSD PIYTLNVQ PKQKFERPIC VSWSTDVKG RWTSGCVIL EASETYTICS CNQMANLAVI MASGLTMDF SLYIIISHVGI IISLVCLVLA IATFLLCRSI RNHNTYHLH LCVCLLLAKT LFLAGIHKTD NKTGCAIAG FLHYFLACF FMVLVEAVIL FLVVRNLKV NYFSSRNIMK LHICAFGYGL PMLVVVISAS VQPGYGMHN RCWLNTETGF IWSFLGPVCT VIVINSLLLT WTLWLRQRL SSVNAEVSTL KDRLLTFKA FAQLFILGCS WVLGFIQIGP VAGVMAYLFT IINSLOGAFI FLIHCLINGQ VREEYKRWIT GKTKPSSQSQ TSRILLSSMP SASKTG ggaaaacgac acctagaagt aggagtgaag ttcccttctg aggaagacc A accctccgc ctgtagagcc gggctggtg gtcctgagc acccttcgg cctggacagc ccacggggc ttggggggcc tgcctctgcc ctcatggggc ggcctcgggt tcccgaagc gcgagtgaat attcaaatg ccagtagggg gcgcaactcg agtgggcgc ccgcgatgag gcagttcagc ggccccgaga gtccggggag ggaggtttat tctccgctg cagcagactg tgaatccgc aacctagc aggaaggcg gccctggtg ggaagaggcc accaatctt ggacggcagg taccagaga gtgagcagc ccacggcgga ctgtgacgg tggccgacac </p> | Homo sapiens |
| 91 | G Protein-Coupled Receptor GPR30 | NM_001505 | 965 | | | <p> tgcgaggctt cctgcactac ctttttccttg cctgcttctt ctggatgctg gtggaggctg tgatactgtt cttgatggtc agaaacctga aggtggtgaa ttacttcagc tctcgcaaca tcaagatgct gcacatctgt gccttggtt atgggtgctc gatgctggtg gtggtgatct ctgccagtgt gcagccacag ggcataatgc tgcataatgc ctgctggtg aatacacaga cagggttcat ctggagtctt ttggggccag ttgacacagt tatagtgc aactcccttc tctgacctg gacctgttg atctgagc agaggcttc cagtgttaat gccgaagtct caagctaaa agacaccag ttactgacct tcaaggcctt tgccagctc ttcatccttg gtgctcctg ggtgctggg atttttcaga ttggacctt ggcaggtgc atggcttacc tgctcaccat catcaacag ctgcagggg cctcatctt cctcatccac tgtctgtca acggccaggt acgagaagaa tacaagaggt ggcactggt gaagacgaag ccagctccc agtccagac ctcaaggatc ttgctgtcct caatgccatc cgttccaaag acgggttaaa gcctttcttg ctttcaata tgctatggag ccacagtga ggcagtagt ttctgacag agcctaccct gaaatctct ctacagctaa catggaatg aggatccac cagccccaga accctctggg gaagaatgt gggggccgtc ttctgtggt tgcctgacct gatgagaaat cagacgttct tgcctcaaac gaccatttta ttctgtgct ctgcaacttc tcaattcca gagttctga gaacagacc aaattcaatg gcatagacaa gaacacctg ctaccatttt gtttctctc gccctgttg gtgcatggt ctaagcgtgc cctccagcg cctatcatc gctgacaca gagaacctc caataaatga ttgtgcct gtctgactga ttaccctaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa MRGFNLLFW GCCVMHSWEG HIRTRKPN KGNCRDSTL CPAYATCTNT VDSYYCTCKQ P GFLSSGNQH FKDPGVRCKD IDECSQSPQ CMGSSCKNL SGYKSCSLD GFSPTGNDW VPGKGNFNC TDINECLTSR VPHEHSDCVN SMGSYSCSQ VGFISSNSTD EDVNECADPR ACPEHATCNC TVGNYSCFCN PGFESSGHL SCQGLKASCE DIDECTEMCP INSTCTNTPG SYFCTHPGF APSSGQLNFT DQGECDRID ECRQDETCG PNSICTNALG SYSCGCIYGF HPNPGSQKD GNFSQORVLF KCKEDVIPDN KQIQOQEGT AVXPAYVSFC AQINNIFSVL DKVCENKTV VSLKNTTESF VPVLKQISMW TKFTKEETSS LATVFLESVE SMTLASFWKP SANVTPAVRA EYLDIESKVI NKECSEENV LTLVAKGDKM KIGCTIEES ESTETGVAF VSFVGMESVL NERFQDQHA PLTTSEIKLK MNSRVVGGIM TGEKKDGFSD PIYTLNVQ PKQKFERPIC VSWSTDVKG RWTSGCVIL EASETYTICS CNQMANLAVI MASGLTMDF SLYIIISHVGI IISLVCLVLA IATFLLCRSI RNHNTYHLH LCVCLLLAKT LFLAGIHKTD NKTGCAIAG FLHYFLACF FMVLVEAVIL FLVVRNLKV NYFSSRNIMK LHICAFGYGL PMLVVVISAS VQPGYGMHN RCWLNTETGF IWSFLGPVCT VIVINSLLLT WTLWLRQRL SSVNAEVSTL KDRLLTFKA FAQLFILGCS WVLGFIQIGP VAGVMAYLFT IINSLOGAFI FLIHCLINGQ VREEYKRWIT GKTKPSSQSQ TSRILLSSMP SASKTG ggaaaacgac acctagaagt aggagtgaag ttcccttctg aggaagacc A accctccgc ctgtagagcc gggctggtg gtcctgagc acccttcgg cctggacagc ccacggggc ttggggggcc tgcctctgcc ctcatggggc ggcctcgggt tcccgaagc gcgagtgaat attcaaatg ccagtagggg gcgcaactcg agtgggcgc ccgcgatgag gcagttcagc ggccccgaga gtccggggag ggaggtttat tctccgctg cagcagactg tgaatccgc aacctagc aggaaggcg gccctggtg ggaagaggcc accaatctt ggacggcagg taccagaga gtgagcagc ccacggcgga ctgtgacgg tggccgacac </p> | Homo sapiens |

ccgcaggag gccgcgcga cgagcagcg gaggccctc gcctccacgg atgcaccatg
 ccggtgtgag gacatctgt tcttccact ctctgcagt acaaaaccca acccaacca
 ccacaggtag tcttccctgg gatttctctg tctgacaaat gccaggctca cttaaggag
 aatcacgctt ctttctaaag atggattcac catttaaac agagctctgg gagccttctg
 gcaaatcttg aaagctgcac ggcgcagaga catggtatgt acttccaaag cccggggcgt
 gggcctggag atgtaccag gcaccgcga gctgcggcc cccaaaccca cctccccga
 gctcaacctg tcccaccgc tccctgggac cgccctggc aatgggacag gtgagctctc
 ggagcaccag cagtacgtga tcggcctgtt cctctctgc ctctaccca tcttctctt
 ccccatggc ttgtgggca acatctgat cctgtgggtg aacatcagct tccgcagaa
 gatgaccatc cccgacctgt acttcatcaa cctggcggtg gcggacctca tccgtgtggc
 cgactccctc attgaggtgt tcaacctgca cgagcggtac tacgacatcg ccgtcctgtg
 caacttcattg tgcctcttcc tgcaggtcaa catgtacagc agcgtcttct tctcacttg
 gatgagcttc gaccgctaca tcgcccctggc caggccatg cgtgcagcc tgttcgcac
 caagcaccac gcccggtga gctgtggct catctggatg gcacccgtg cagccacgt
 ggtgcccttc accgcctgc acctgcagca cccgacgag ccctgcttct gttcgggga
 tgtccgggag gtgcagtggc tcgaggtcac gctggcttc atcgtgccct tgcctcatc
 cgccctgtgc tactccctca ttgtccgggt gctggtcagg gcgcacggc accgtgggt
 gcggcccccg cggcagaagg cgctccgat gatcctggc gtggtgctgg tcttctctg
 ctgctggctg ccggagaacg tcttcatcag cgtgcacctc ctgcagcgga cgcagcctgg
 ggccgctccc tgcaagcagt ctttccgcca tgcacccc ctacagggcc acattgtcaa
 cctgcggcc ttctccaaca gctgcctaaa cccctcatc tacagcttct tcggggagac
 cttcaggagc agctgaggc tgtacattga gcagaaaaca aattggccgg cctgaaaccg
 cttctgtcac gctgccctga agccctgat tccagacagc accgacagt cggatgtgag
 gttcagcagt gccgtgtaga cagccctggc cgcataggcc cagccagggt gtgactcggg
 agctgcacac acctgggtgg acacaaggca cggccacgtc atgtctctaa actgcgtca
 gatgtggctt ctggtctctc ggggctcgc gagggtcacg cttgcctgggt caccctgggg
 ctgcttagga aacctcacga ctggtcacct tgcactcttc acacagaatt gctacaatcc
 caaagcgtc gccccgcagg gtccaaaggc cagcgtgac cagcctgtca cccagctcct
 ccccgccaa cctgacctg cctgcaacct gctgcctgt caggaaacat ttgacacct
 cgaccaggaa agccacagg agaggccact gtgggtgaa gacccatcatt acacaggaac
 cctaaagcaa atctgccacc gtgggggaaac tgacgctgga gatgcaaggt gctggtgggt
 ctgagctgga cgtcgggtg tgtcctctgt gccacgtgtc tgagctagct agcgcacgc
 cgagttaaag aggagaaagg aacatgctg ctctgtgtga cgcctgagcg tctcctatc
 tccaggatgg cagcaatggc gctgtgggc ctacaccagg ccacgaggag cagcagcgt
 cggcccgag cagcagggaag cccctctgt ggagcccg ccgtctgctc cgggtgtggt
 cagtcactgc ttgttgacat caacatggca attgactca tgtggactgg gaccgtgca
 gctgcctgt ggttagctg ggtgccagga caatgaata ctccagcac tgtgctgac
 gaatttgtt ctacagaaat aacagctgg gacaactgc gtgatgatgt aaaaacctc
 ccataaaatg taagaaaagc tgatgagct ggtgacgtt agccttgtc aataaacctg
 tcatgtgcg atcctt

NP_001496.1 MDVTSQARGV GLEMPGTAQ PAAPNTTSPE LNLSPHLLGT ALANGTGELS EHQQYVIGLF P Homo

| | | | | | |
|------------------------------|----|-----|-----------------------------------|-------------|--|
| Coupled Receptor GPR30 | 93 | 978 | Cholecystoki nin A Receptor | NP_000730 | LSCLYTIFFL PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSLIEVFNLH sapiens |
| | | | | | ERYDYDIAVLC TMSLFLQVN MYSSVFFLTW MSFDRIYALA RAMRCSLFRT KKHARLSCGL sapiens |
| | | | | | IWMASVSATL VFTTAVHLQH TDEACFCFAD VREVQWLEVT LGFIVPFALL GLCYSLIVRV sapiens |
| | | | | | LVRARHRGL RRRQKALRM ILAVLVFFV CWLPENVFIS VHLLQRTQPG AAPCKQSFRR sapiens |
| | | | | | AHPLTGHIVN LAAFSNSCLN PLIYSFLGET FRDKRLRYIE QKTNLPALNR FCHAALKAVI sapiens |
| | | | | | PDSTEQSDVR FSSAV sapiens |
| | | | | | ggaatggctg aaaaagccca cacctggaaa tcaactccctc cctgctcctc cacggcaggt A |
| | | | | | tgcactctcg agacgcttcg gtcattagag gaatgagcgg ggagtggagca attcaccagc sapiens |
| | | | | | tctccagcac ttggtggaaa gcagcaggca aggatggatg tgggtgacag ccttcttctg |
| | | | | | aatggaagca acatcactcc tccctgtgaa ctggggctcg aaaaatgagac gcttttctgc |
| | | | | | ttggatcagc cccgtccctc caaagagtgg cagccagcgg tgcagattct cttgtactcc |
| | | | | | ttgatattcc tgcctcagct gctgggaaac agctgtgtca tcaccgtgct gattcgggaa |
| | | | | | aagcggatgc ggacgggtcac caacatcttc ctctctccc tggctgtcag cgacctcatg |
| | | | | | ctctgtctct tctgcatgcc gttcaacctc atcccaatc tgcacaagga tttcatcttc |
| | | | | | gggagcgccg ttgcaagac caccacctac ttcattgggca cctctgtgag tgtatctacc |
| | | | | | tttaactctg tagccatctc tctagagaga tatggtgcga ttgcaaac cttacagctc |
| | | | | | cgggtctggc agacaaaatc ccatgctttg aaggtgattg ctgtacctg gtgctttcc |
| | | | | | tttaccatca tgactccgta cccattttat agcaacttgg tgccttttac caaaaaaac |
| | | | | | aaccagaccg cgaatatgtg cegctttcta ctgcaaatg atgttatgca gcagctctgg |
| | | | | | cacacattcc tgttactcat cctcttctt attctggaa ttgtgatgat ggtggcatat |
| | | | | | ggattaatct ctttggaaact ctaccaggga ataaaatttg aggtagacca gaagaagtct |
| | | | | | gctaaagaaa ggaacacctag caccaccagc agggcaaat atgaggacac cgatgggtgt |
| | | | | | tacctgcaa agaccaggcc ccgagggaag ctggagctcc ggagctgtc cacoggcagc |
| | | | | | agcagcaggg ccaaccgcat ccgagtaac agtccgcag caacctgat ggccaagaaa |
| | | | | | aggtgatcc gcattgctcat cgtcatcgtg gtctcttct tctgtgtctg gatgcccac |
| | | | | | ttcagcgcca acgctggcg ggctacgac accgctccg cagagcgccg cctctcagga |
| | | | | | accccatctt ccttcatcct cctctgtcc tacactcct cctggtcaa cccatcatc |
| | | | | | tactgcttca tgaacaaacy cttccgctc ggttcatgg ccacttccc ctgctgcccc |
| | | | | | aatctctgtc cccaggggc gagggagag gtgggggag aggaggaag cgggaccaca |
| | | | | | ggagcctctc tgtccaggtt ctctacagc catatgagt cctgggtgcc acccagtgga |
| | | | | | gatgtccctt gacctccac cgcagaagga aggcaggag gagcagaga agaaagaacg |
| | | | | | gaagaagaga tcaggaagag aaggagcaga gcagagctga tggagaagga aggtccatc |
| | | | | | tccagtggga actcttcaag gtctctttc atctctcat tgattccaga gcactgctcc |
| | | | | | agtggggcca tgattggtt ctaggcagtt caagcagga tatgttaagt aacctcaac |
| | | | | | catcag |
| | | | | | |
| 94 | | 978 | Cholecystoki nin A Receptor | NP_000721.1 | MDVVDLSILVN GSNITPPCEL GLENETLFLCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P |
| | | | | | LVITVLIIRNK RMRVTNIFL LSLAVSDLML CLFCMFNLI PNLLKDFIFG SAVCKTTYF sapiens |
| | | | | | MGTSVSVSTF NLVAISLERY GAICKELQSR VWQTKSHALK VIAATWCLSF TIMTPYIYS sapiens |
| | | | | | NLVPFTKNNN QTANMCRFLI PNDVMQQSWH TFLLLILFLI PGIVMVMVAYG LISLELYQGI |
| | | | | | KFEASQKSA KERKPSSTSS KYEDSDGCV LQKTRPPRKL ELRQLSTGSS SRANRIRSN |
| | | | | | SAANLMAKR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASERRLSGT PISFILLISY |

95

1103 Corticotropin releasing factor Receptor 2

TSSCVNPIIY CFMNRFRILG FMATFPCCPN PGPPGARGEV GEEEGGTTG A\$LSRFSYSH
MSASVPPQ

Homo
sapiens

atggacgcgg cactgctcca cagcctgctg gaggccaact gcagcctggc gctggctgaa A
gagctgctct tggacggctg ggggccaccc ctggaccccg aggtgcccta ctcctactgc
aacacgacct tggaccagat cggaacgtgc tggccccgca gcctgcgcgg agccctcgtg
gagagggcgt gccccgagta cttcaacggc gtcaagtaca acacgacccg gaatgcctat
cgagaatgct tggagaatgg gacgtgggccc tcaaatgata actactaca gtgtgagccc
atttggatg acaagcagag gaagtaigac ctgcactacc gcacgcctct tgtcgtcaac
tacctgggccc actgcgtatc tgtggcagcc ctgggtggcgg ccttcctgct tttcctggcc
ctggcgagca ttgcgtgtct gcggaatgtg attcactgga accatcac cactttatc
ctgcgaatg tcatgtggtt cctgctgcag ctctgtgacc atgaagtga cgagagcaat
gagctctggt gcaactgcat caccaccatc ttcaactact tcgtgtgtgac caactcttc
tggatgtttg tggaaaggctg ctacctgcac acggccattg tcatgacctc ctccactgag
cgctgcgca agtgcctctt cctcttcac ggaatgtgca tccccctccc cactatcgtc
gcttgggcca tgggcaagct ctactatgag aatgaacagt gctgggtttgg caaggagcct
ggcgacctgg tggactacat ctaccaaggc cccatcattc tcgtgctcct gatcaattc
gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgctgctc caccacatcc
gagacaatcc agtacaggaa ggcaagtgaag gccacctgg tgcctcctgccc cctcctgggc
atcacctaca tgcctctctt cgtcaatccc ggggagagacg acctgtcaca gatcatgttc
atctatttca actccttctt gcagtcttcc cagggtttct tcgtgtctgt cttctactgc
tcttccaatg gagaggtgcg ctacgcctg aggaagaggt ggcacccgtg gcaggacct
cactcccttc gagtcccat ggcggcgct ggtgacccc tcgtcctgccc acctgcacag
agcttccaca gcatcaagca gacggcgct tcttctctt tgcgtggcag gctctcgtgg
ctccctgtc ctctccacc tcttctctt tccagccttg caggaaagag ggggtgcggc
ggcaggagat gggaggggag agaccagctc agcaaaagag ggggtgcggc
agccaagggg gactgcaagg gacaggatg agtgggggccc accaggctca gcgcaagag
aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcatttg
cccatcccaag cctctctggc cagggcctta ctgggcccag agcagagaag gacctgtcca
acacacacag ctatttatag tagcagacac agggctcccc tgcctactc atggagccag
cagccaggca atggtgtggc cctgcactgg ccttggact ccacactcag tgggtgccc
cagttgggtg ggttaacgccc aagcaaaagga tcagtttggc tgccttacc cagggtctg
acctagagag gctcacttgt accccacct gttcctgtgt cccctcccc gccatctcc
ccgctctggt ggtccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga
ccccctctct gcctagtcca cagattaggc atcaaatgaa gacgccatca gggaagccac
atccttagtc aaccagtgc atcgtgcggg gcaaaatgag gacagagggc atggagagg
gagggctggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcataccca
ttgccccctg cctccagtc tcccttcag aacatctct gctctctgtg aaataaacca
tgcctcttg

96

1103 Corticotropin releasing factor

MDAALLHSL ERPCPEYFNG VKYNTRNAY RCLNGTWA SKINYSQCEP ILDDKQRKYD LHYRIALVNV
YLGHCVSVA LVAELLFLA LRSIRCLRNV IHNWLTTFI LRNVWFLLQ LVDHEVHESN

Homo
sapiens

Receptor 2

97

1240

Dopamine
Receptor D1

NM_000794

EVWCHCITTI FNYFVVTNFF WNFVEGCVLH TAIWMTYSTE RLRKCLFLFI GWCIPFPIIV
 AWAIGKLYE NEQCFWKEP GDLVDYIYQG FIILVLLINE VFLFNIVRIL MTKLRASSTTS
 ETIQYRKAVK ATLVLLPLLG ITYMLFFVNP GEDDLSQIMF IYENSFLQSF QGFFVSVFYC
 FFNGEVRSAV RKRWRHQDH HSLRVPMAA MSIPTSPTRI SFHSIKQTAA V
 ggtctcgctgc ctgcctatgc cacaggctcc tgagaggtcg cgggcagctgc ctgcccgggag A
 gcgcggggcc ctgctctgtg gggctgaagg cgcgccgagg ttcgccaagg ctctgggctc
 tcgaaaaggaa gcaagaaaaa gaagctgccc aggtgaccag tcttgggagt gctctctccc
 aaggaagctc cgagcgccca ggagccctta gcgggggtct agtccccttt gaacaatctc
 cagctcttca aggaagtggg ctgcccgcgc ctctcttggg acctggcctg ggatcccttc
 cccaacgca cccggcgat ttttgcgcac cgggagccga accctgctg cgcgcagctg
 gctgggctca ggcgcgcttc ctcaacgttt cggagccgct gccccagcg aagtcacat
 tccaagctcc agggccttg agagagacga cccaaggca aggcgtttgg agagctgctg
 agagccagg ggttgagg agcgagaaga catgtattt cagctgagtc tcagaagggg
 agaattctct gtacccacca gaaaagcaac agccccgaaa tgtgattgca actgactagc
 agagcagagg cccaggagtc atggattga tgatttagaa tatgctaaaa agccagtgc
 ttatttgggg aattcagggg ctctctggg ccaagacag tgacctgag atgaggactc
 tgaacacctc tgccatggac gggactgggc tgggtggtga gagggacttc tctgttcgta
 tctcactgc ctgtttctca tgcctgctca tctgtctcac gctcctgggg aacacgctgg
 tctgtgctgc cgttatcagg ttcgcacacc tgcgggtcaa ggtgaccaac tctttgtca
 tctccttggc tgtctcagat ctcttgggtg catgccctgg aaggcagctg
 ctgagattgc tggcttcttg cctttgggt ccttctgtaa catctgggtg gcctttgaca
 tcatgtgctc cactgcatcc atctcaacc tctgtgtgat cagcgtggac aggtatttggg
 ctatctccag cctttcccg tatgagagaa agatgacccc caaggcagcc tctatcctga
 tcaagtggc atggaccttg tctgtactca tctccttcat ccaagtgcag ctcaagtggc
 acaaggcaaa acccaaacg cctcttgatg gaaatgccac tctcctggct gagaccatag
 acaactgtga ctccagcctc agcaggacat atgcatctc atctctgta ataagctttt
 acatccctgt ggccatcatg atgtcacct acaccaggat ctacaggatt gctcagaaac
 aaatacggcg cattgcggcc ttggagaggg cagcagtcga cccaagaat tgcagacca
 ccacaggtaa tggaaagcct tcgaatgtt ctcaaccgga agttctttt aagatgtcct
 tcaaaagaga aactaaagtc ctgaagactc tgcggtgat tctgggtgtg tttgtgtgct
 gttggctacc tttctcctc ttgaactgca ttttgcctt ctgtgggtct ggggagacgc
 agcccttctg cattgattcc aacaccttg acgtgttgtg tgggttttggg tgggctaatt
 catccttgaa ccccatcatt tatgccttta atgtgattt tcggaaggca ttttcaacc
 tcttaggatg ctacagactt tgcctgcga cgaataatgc catagagacg gtgagtatca
 ataaacaatgg ggcgcgcatg ttttccagc atcatgagcc acaggtctcc atctccaaag
 agtgcaatct ggtttacctg atccacatg ctgtgggctc ctctgaggac ctgaaaaaag
 aggaggcagc tggcatcgcc agaccttgg agaagctgc cccagcccta tccgtcatat
 tggactatga cactgacgtc tctctggaga agatccaacc catcacaaa aacggtcagc
 acccaacctg aactcgaga tgaatcctgc cacatgct catcccaaaa gctagaggag
 attgctctgg ggtttgctat taagaaacta aggtacggtg agactctgag gtgtcaggag
 agccctctgc tgctttccaa cacaaatta actcgttcc caatacatt ccaqtgtatt

Homo
sapiens

| | | | | | |
|----|------|-------------------------|-------------|--|-----------------|
| 98 | 1240 | Dopamine Receptor D1 | NP_000785.1 | <p> ttctgtgttg ttcatagtc atcaaacagg gacactacaa acatggggag ccataaggga catgtcttg gcttcagaat tgtttttaga aattattct tatcttagga tttaccaaat agggcaaaaga atcaacagtg aacagcttca cttaaatca aattttctg ggaagaaat gagatgggtt gagtttctg tacaacaa ggtgctaaca ctgttccag caaagttttc agattgtaaa ggtaggtgca tgccttcata aattattct aaacattaa ttgaggtta cagtaggagt gagaaatttt ttccagaat tgagagatgt ttgttgata ttggttctat ttattttatt tatatatgga tatttttaatt ttatgata ataaatata atttataca tttaatagga taaattaatg agttttatcc aagaccttac aaccacattt ctggccattt aactagcact ttataagcca atgaagcaaa cacacagact ctgtgagatt ctaaaatgtc atgtgtaact tctaga atgtgtaact tctaga </p> | Homo sapiens |
| | | | | <p> MRTLNTSAMD GTGLVERDF SVRLTACFL SLILSTLIG NTLVCAAVIR FRHLRSKVTN P FFVISLAVSD LLVAVLMPW KAVAEIAGEW PFGSFCNIWV AFDIMCSTAS ILNLCVISVD RYWAISSPFR YERKMTPKAA FILISVAVTL SVLISFIPVQ LSWHKAKPTS PSDGNATSLA ETIDNCDSSL SRTYAISVV ISFYIPVAIM IVTYTRIYRI AQKQIRIAA LERAAVHAKN CQTTGNGKP VECSQPESF KMSFKRETKV LKTLSTIMGV FVCCWLPFFI LNCILPFCGS GETQPCIDS NTFDFVWFG WANSLLNPII YAFNADFRKA FSTLLGCYRL CPATNNAIET VSINNNGAAM FSSHHEPRGS ISKECNLVYL IPHAVGSSSED LKKEEAAGIA RPLEKLSPAL SVILDYDIDV SLEKIQPTIQ NGOHPT </p> | |
| 99 | 1241 | Dopamine Receptor D5 | NM_000798 | <p> ggcacagagg agggctgaag ttgggacgc gcaacagccg cccctgcagt ccagccgcaa A atgtgtccgc caggcagcaa cggcacgcgc taccggggc agttcgctct ataccagcag ctgggcaggg ggaacgcgt ggggggctcg gggggggcac cgccactggg gccctcacag gtggtaaccg cctgcctgct gacctactc atcatctgga cctgtctggg caaegtgtg gtgtgcgcag ccatcgtgcg gagccgcac cgtgcgtgg acatgacca cgtcttcac gtgtctctgg ccgtgtcaga ccttttctg gcgtgtctgg tcatgcccc gaagcagtc gccgaggtgg ccggttactg gcccttbgga gcgttctgcg acgtctgggt ggccttcgac atcatgtgct ccactgcctc catcctgaac ctgtggtgca tcagcgtgga ccgtactgg gccatctcca ggccttccg ctacaagcg aagatgactc agcgcagtc ctgtgtcatg gtcggcctgg catggacctt gtccatctc atctcttca ttcgggtcca gctcaactgg cacaggacc agcgccctc ttggggcggg ctggacctgc caaacaacct ggccaactgg acgccctggg aggaggactt ttgggagccc gacgtgaatg cagagaactg tgactccagc ctgaatcgaa cctacgccat ctctctctcg ctcatcagct tctacatccc cgttgccatc atgatcgtga cctacacgg catctaccg atcgccagg tgagatccc caggatttcc tccctggaga gggccgcaga gcacgcgcag agtcgcccga gcagcgagc ctgcccgc gacaccac tgcgccttc catcaagaag gagaccaagg ttctcaagac cctgtcgtg atcatggggg tcttcgtgtg ttgtgtgtg tctcttcca tcttaactg catgttccct ttctgcagt gacacctga aggcctccg gccgcttcc cctgcgtcag tgagaccacc ttcgacgtct tctgtgtgtt cggctgggt aactctcac tcaacccct catctatgcc ttcaacgccg actttcagaa ggtgtttgcc cagctgtgg ggtgcagcca cttctgtcc cgacgcggg tggagacggt gaacatcagc aatgagctca tctctacaa ccaagacatc gtcttcaca aggaatcgc agctgctac atccacatga tgcacaacgc cgttaccctc ggcaacccgg aggtggacaa cgacgaggag gaggttctct tcgatcgcat gttccagatc </p> | Homo sapiens |

| | | | | | |
|-----|------|-------------------------|-------------|---|--------------|
| 100 | 1241 | Dopamine Receptor D5 | NP_000789.1 | <p> tatacagacgt cccagatgg tgaccctgtt gctgagtctg tctgggagct ggactgcgag ggggagattt ctttagacaa aataaacctt ttcaccccg atggattcca ttaaaactgca ttaagaaacc cctcatgga tctgcataac cgcacagaca ctgacaagca cgcacacaca cgcaaatata tgcctttcca gtgctgtcc ctttatcatg tgtttctgtg tagtagctcg tgtgcttaga aacctcacc catgtatgg tagtctgaag aatggcaga atcagtgcga ataaactcag tcaaatgtac ccagcctacc agagatggag caacgatacct atgagagaag agagtatggt gctgggtcct taaaaaaaa atgatactt ggtccttaa aaatatgctc tcccctcct ttttaaaaa atggctgtt cagtcactg tttgtgtttg aattgatttt taaacagcag gttgtgtgtg tctgcagtga tctgtgtgga gcacagcttt cctgggtctg gattcccgtg gctttgtgct tatgtcattt cttctctctg tctgtgtggg ggcctcttta ccatagctta agaagtatcc ctgatttatt ctggtgtcta ataaacacag attatttga aaaaaaaaa aaaaaaaaa aa VCAIAIVRSRH LRANMTNFI VSLAVSDLEF ALLVMPWKAV AEVAGYWPFG AFCDVWVAFD IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTSLIL ISFIPVOLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEP DVNAENDCSS LNRTYAISSS LISFYIPVAI MIVTYTRIYR IAQVQIRRI SLERAAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLV IMGVEVCCWL PFTILNCMPV FCSGHPGPP AGFPCVSETT FDVFWFGWA NSSINPVIYA FNADFQKVEA QLIGCSHFCS RTPVETWNIS NELISYNQDI VFHKEIAAAY IHMNPNAVTP GNREVDNDEE EGFDFRMFQI YQTSFPGDPV ABSWELDCE GEISLDKITP FTFNGFH agagctgtgc caccagatgg cctcaccgc cctgagtcat cactgaatct gtcctggtat A gatgatgcc tggagagcca gaactggagc cggcccttca acgggtcaga cgggaaggcg gacagacccc actacaacta ctatgccaca ctgctcacc ctgctcaccg tctcatcgtc ttcgggcaacg tctgtgtgtg catggctgtg tcccgagaga aggcgctgca gaccacacc aactacctga tctgcagcct cgcagtggcc gacctcctcg tgcacacact ggtcatgccc tgggttctct acctggaggt ggtaggtgag tgaataatca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gctgtgcacg gcgagcatcc tgaacttgtg tgcctcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgcta cagctccaa cgccgggtca cgtcatgat ctccatcgtc tgggtcctgt cctcaccat ctctgcccc ctcctcttcg gactcaataa cgcagaccag aacgagtga tcatggcaa cccggccttc gtggtctact cctccatcgt ctcttctac gtgcttca tttgacccct gctggtctac atcaagatct acattgtcct cgcagacgc cgaagcag tcaacaccaa acgcagcagc cgagctttca gggccacact gagggctcca ctgaaggtt tccagtgaa cccgagggag atgaactctc gacccgttat catgaagtct aatggaggtt tccagtgaa caggcggaga gtggaggctg cccggcagc ccagagctg tcttctcca tgcctccca caccagccca cccgagagga cccgtacag ccccatccca cccagccacc accagctgac tctccccgac ccgtccacc atggtctcca cagcactccc gacagcccc ccaaacca gaagaatggg catgccaagg accacccaa gatggccaa atctttgaga tccagacct gccaatggc aaaaccggga cctccctcaa gacctagc cgttaggaag tctccagca gaaggagaag aaagccactc agatgtcgc catgttctc ggcgtgttca tcatctgtg gctgccttc ttcatcacac acatctgaa cataactgt gactgcaaca tccgcctgt cctgtacagc </p> | Homo sapiens |
| 101 | 1242 | Dopamine Receptor D2 | NM_000795 | <p> tatacagacgt cccagatgg tgaccctgtt gctgagtctg tctgggagct ggactgcgag ggggagattt ctttagacaa aataaacctt ttcaccccg atggattcca ttaaaactgca ttaagaaacc cctcatgga tctgcataac cgcacagaca ctgacaagca cgcacacaca cgcaaatata tgcctttcca gtgctgtcc ctttatcatg tgtttctgtg tagtagctcg tgtgcttaga aacctcacc catgtatgg tagtctgaag aatggcaga atcagtgcga ataaactcag tcaaatgtac ccagcctacc agagatggag caacgatacct atgagagaag agagtatggt gctgggtcct taaaaaaaa atgatactt ggtccttaa aaatatgctc tcccctcct ttttaaaaa atggctgtt cagtcactg tttgtgtttg aattgatttt taaacagcag gttgtgtgtg tctgcagtga tctgtgtgga gcacagcttt cctgggtctg gattcccgtg gctttgtgct tatgtcattt cttctctctg tctgtgtggg ggcctcttta ccatagctta agaagtatcc ctgatttatt ctggtgtcta ataaacacag attatttga aaaaaaaaa aaaaaaaaa aa VCAIAIVRSRH LRANMTNFI VSLAVSDLEF ALLVMPWKAV AEVAGYWPFG AFCDVWVAFD IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTSLIL ISFIPVOLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEP DVNAENDCSS LNRTYAISSS LISFYIPVAI MIVTYTRIYR IAQVQIRRI SLERAAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLV IMGVEVCCWL PFTILNCMPV FCSGHPGPP AGFPCVSETT FDVFWFGWA NSSINPVIYA FNADFQKVEA QLIGCSHFCS RTPVETWNIS NELISYNQDI VFHKEIAAAY IHMNPNAVTP GNREVDNDEE EGFDFRMFQI YQTSFPGDPV ABSWELDCE GEISLDKITP FTFNGFH agagctgtgc caccagatgg cctcaccgc cctgagtcat cactgaatct gtcctggtat A gatgatgcc tggagagcca gaactggagc cggcccttca acgggtcaga cgggaaggcg gacagacccc actacaacta ctatgccaca ctgctcacc ctgctcaccg tctcatcgtc ttcgggcaacg tctgtgtgtg catggctgtg tcccgagaga aggcgctgca gaccacacc aactacctga tctgcagcct cgcagtggcc gacctcctcg tgcacacact ggtcatgccc tgggttctct acctggaggt ggtaggtgag tgaataatca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gctgtgcacg gcgagcatcc tgaacttgtg tgcctcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgcta cagctccaa cgccgggtca cgtcatgat ctccatcgtc tgggtcctgt cctcaccat ctctgcccc ctcctcttcg gactcaataa cgcagaccag aacgagtga tcatggcaa cccggccttc gtggtctact cctccatcgt ctcttctac gtgcttca tttgacccct gctggtctac atcaagatct acattgtcct cgcagacgc cgaagcag tcaacaccaa acgcagcagc cgagctttca gggccacact gagggctcca ctgaaggtt tccagtgaa cccgagggag atgaactctc gacccgttat catgaagtct aatggaggtt tccagtgaa caggcggaga gtggaggctg cccggcagc ccagagctg tcttctcca tgcctccca caccagccca cccgagagga cccgtacag ccccatccca cccagccacc accagctgac tctccccgac ccgtccacc atggtctcca cagcactccc gacagcccc ccaaacca gaagaatggg catgccaagg accacccaa gatggccaa atctttgaga tccagacct gccaatggc aaaaccggga cctccctcaa gacctagc cgttaggaag tctccagca gaaggagaag aaagccactc agatgtcgc catgttctc ggcgtgttca tcatctgtg gctgccttc ttcatcacac acatctgaa cataactgt gactgcaaca tccgcctgt cctgtacagc </p> | Homo sapiens |

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|-----|------|-------------------------|-------------|--|-----------------|
| 102 | 1242 | Dopamine Receptor D2 | NP_000786.1 | <p>gccttcacgt ggctgggcta tgtcaacagc gccgtgaacc ccatcatcta caccaccttc aacattgagt tccgcaagcg cttcctgaag atcctccact gctgactctg ctgctgccc gcacagcagc ctgcttccca cctccctgcc caggccggcc agcctcacc ttgcgaaccg tgacagagaa ggctgggtg gatcgccctc cctctcttag ccccgccagg ccctgcagtg ttcgcttgcc tccatgctcc tcactgccc caccctca cctcgccagg gcagtgtctag tgagctgggc atggtaccag cctggggct ggccccagc caggggcagc tcatagatgc ccccctcca cctccagtc cctatcctt ggacccaag atgcagccg cttccttgac cttctctgg ggctctagg ttgctggagc ctgagtcagg gccagaggc tgagtttct ctttgtggg cttggcgtgg agcaggcgtt gggagagat ggacagttca caccctgcaa ggccacagc aggcaagcaa gctctctgc cgaggagca ggcaacttca gtctggggag accatgtaa ataccagact gcaggttgga cccgagagat tcccaagcca aaaaacttag ctcctccc cacccgatg tggacctta cttccagc tagtcgggac caactcacc cggtacagc tcccaagt gttccacat gctctgagaa gaggagcct catctgaag ggccaggag ggtctatgg gagaggaact cttggccta gccacccctg ctgcttctg acggccctgc aatgtatccc ttctcacgc acatgctggc cagcctgggg cctggcaggg aggtcaggcc ctggaactct atctggcct gggctaggga catcagagt tctttgaggg actgcctctg ccacactctg acgcaaaacc acttctctt tctattcct ctggccttc ctctctctg ttcccttcc cttccactgc ctctgctta gaggagccca cggctaagag gctgctgaaa accatctggc ctggcctggc cctgcctga ggaaggaggg gaagctgcag cttgggagag cccctgggc ctgactctg taacatact atccgatgca ccaactaat aaaaacttga cgagtcaact tc</p> | Homo sapiens |
| 103 | 1243 | Dopamine Receptor D3 | NM_000796 | <p>REKALQTTN YLIVSLAVR DDLERQNSR PFNSDGKAD RPHNYVYATL LTLIAVIVF GNVLCMAVS P SILNLCAISI DRYTAVAMPM LLNTRYSSKR RVTVMSISV VVLEVVGEW KFSRIHCDIF VTLDVMMCTA ECIIANPAFV VYSSIVSFYV PFIVTLVYI KIYIVLRRRR KRVNTRSSR AFRAHLRAPL KGNCTHPEDM KLCIVIMKSN GSFPVNRVV EAARRAQELE MEMLSSTSP ERTRYSPIPP SHHQLTLPDP SHGLHSTPD SPAKPEKNHG AKDHPKIAKI FEIQTMPNGK TRTSLKTMSR RKLSQQKEKK ATQMLAIVLG VFIIICWLPEFF ITHILNIHCD CNIPPVLYSA FTWLGYNVA VNPIIYTTFN IEFKAFILKI LHC</p> <p>taaagaaaac ggatacattc gaaagcagct atgaaacatg cactaaggctc taataggga A gctggaaaaag cagcactcaa gtaattcac cttagaggga aaaaagggtg attctttct gttcatttca tagtttctga gctctgagaa aggcagaagt ttctttgctt ggttatgtct gctgtcagta aatggctgca ggagccgaag tggtaaaact ctgggtctcc agaaatcaga agaaaaattt aggaagcccc ttggcatcac gcactccct ctgggctatg gcatctctga gtcagctgag tagccacctg aactacacct gtggggcaga gactccaca ggtgccagcc agggccgccc acatgcctac tatgcctct cttactgcgc gctcactctg gccatcgtct tcggcaatgg cctggtgtgc atggctgtgc tgaaggagcg ggccctgcag actaccaca actacttagt agtgagcctg gctgtggcag acttgctggt ggccacctg gtgatgccct gggtgggata cctggagggtg acaggtggag tctggaattt cagccgcat ttgctgtgatg ttttgtcac cctggatgtc atgatgtgta cagccagcat cctaatctc tgtgccatca gcatagacag gtacactgca gtgggtcatgc ccgttacta ccagcatggc acgggacaga</p> | Homo sapiens |

Homo
sapiens

104 1243 Dopamine Receptor D3 NP_000787.1

gctcctgtcg ggcggtggcc ctcatgatac cggccgtctg ggtactggcc tttgctgtgt
 cctgccctct tctgtttggc tttaatacca caggggaccc cactgtctgc tccatctcca
 accctgattt tgtcatctac tcttcagtgg tgtccttcta cctgcccttt ggagtgaatg
 tecttgtcta tgccagaatc tatgtgtgac tgaacaacaa gagacggaaa aggatctcta
 ctgacagaa cagtcagtgc aacagtgtca ggcctggctt ccccaacaa accctctctc
 ctgaccggc acatctggag ctgaagcgtt atacagcat ctgccaggac actgccttgg
 gtggaccagg cttccaagaa agaggaggag agttgaaaag agaggagaag actcggaatt
 cctgagtc caccatagcg cccaagctca gcttagaagt tcgaaaactc agcaatggca
 gattatcgac atctttgaag ctggggcccc tgcaacctcg gggagtggca cttcgggaga
 agaaggcaac ccaaatgggtg gccattgtgc ttggggcctt cattgtctgc ttgctgcccc
 tcttcttgac ccatgttctc aatacccaat gccagacatg ccaactgtcc ccagagcttt
 acagtggcac gacatggctg ggctacgtga atagcgcct caaccctgtg atctatacca
 ccttcaatat cgagttcccg aaagccttc tcaagatcct gtcttgcga gggagc

MASLSQLSSH LNYTCGAENS TGASQARPHA YYALSYCALI LAIVFGNGLV CMAVLKERAL P
 QTTNYLWVS LAVADLLVAT LVMPWVWYLE VTGGWNFSR ICCDVFVTLV VMCTASILN
 LCAISIDRYT AVMPVHYQH GTQSSCRRV ALMITAVWVL AFAVSCPLLF GFNTTGDPV
 CSISNPDEVI YSSVVSFYLP FGVTVLVYAR IYVVLKQRRR KRILTRQNSQ CNSVRPGFPQ
 QTLSPDPAHL ELKRYYSICQ DTALGGPGFQ ERGELKREE KTRNSLSPTI APKLSLEVRK
 LSNGLRSTSL KLGPLOPRGV PLREKKATQM VAIVLGAFAV CWLPFFLTHV LNRHCQTCHV
 SPELYSATW LGVNSALNP VYTFNIEF RKAFKLKLSL

Homo
sapiens

105 1244 Dopamine Receptor D4 NM_000797

atggggaacc gaagcacgcg gacgcgggac gggctgtctg ctgggagcgg ggcggcccg A
 gggggatctg cgggggcacg tgggggctg gctggggcag ggcggcgccg gctgggtggg
 gggctgtctg teatctgcgc ggtgctcgcg ggaactcgc tegtgtgcgt gacgtggcc
 accgagcgcg cctgcagac gccacacac tcttctatg tgagcctggc ggcggccgac
 ctctcctctg ctctcctggt gctgcgcgc tctgtctact ccgaggtcca ggggtggcgc
 ttggtgtctga gcccccgcct gtgcgacgc cteatggcca tggacgtcat gctgtgcacc
 gctccatct tcaacctgtg gccatcacg gtggacaggt tegtggcctg ggcgtgccc
 ctgcgctaca accggcaggg tgggagccgc cggcagctgc tegtacatcg gccacgtgg
 ctgctgtccg cggcggtggc ggcggccgta ctgtgcggcc tcaacgacgt gcgcgccgc
 gacccgcgcg tgtgcgcct ggagacccg gactacgtgg tctactctc cgtgtgtctcc
 ttctctctac cctgcccgc ctactgtgtg ctactactgg ccaacttccg cggcctgcag
 cgtggggagg tggcagctcg cgcgaagctg caggcccg cgcggcccg accagcggc
 cctggccgcg ctctccccc gccaccccg cccgcctcc cccaggaccg ctgcggccccc
 gactgtgccc ccccccgc cggccttccc cgggggtccct gggggcccg ctgtgcgccc
 gccgcgccc gctcccccc ggacccctgc ggcggccact gtgcggcccc cgcggccggg
 ctccccagg accctgcgg cccgactgt ggcggcccg cgcggccct tccccgggt
 cctgtggcc cggactgtg gcccccgc cggggcctcc cccaggaccg ctgcggccccc
 gactgtgccc ccccccgc cggcctcccc cgggacctcc cgggtctcaa ctgtgtctcc
 cccgacgccc tcagagccgc cgcgctccc cccagactc caccgacag ccgagggagg
 cggcgtgcca agataccgg ccgggagcgc aaggccatga gggctcctgc ggtggtggtc
 ggggcccctc tgctgtgtcg gacgcccctc ttctgtgtgc acatcacgca ggcgtgtgtg

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|------|---|-------------|---|-----------------|
| 106 | Dopamine Receptor D4 | NP_000788.1 | <p>cctgctgct cgtgcccc ggggtggtc agcgccgtc cctggctggg ctacgtcaac agcgcctca acccgtcat ctacactgtc ttcaacgccc agttccgcaa cgtcttcgc aaggccctgc gtgctgctg ctgagccggg cacccccga cgcctccgg cctgatggcc aggcctcagg gaccaaggag atggggaggg cgtttttgta cgttaataa acaattcct tccc</p> | Homo sapiens |
| 1244 | | | <p>TERALQTPTN SFIVSLAAD LLLALLVLP FVYSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDRFVAVAP LRYNRQGS RQLLLIGATW LLSAAVAAPV LCLNDVRGR DPAVCRLEDR DYVYSSVCS FFLPCFLML LYWATERGLQ RWEVARRAKL HGRAPRRPSG PGPPSPTPA PRLPQDPCGP DCAPPAPGLP RGPCGPDAP AAPGLPPDPC GPDCAFPAPG LPQDPCGPD APPAPGLPRG PCGPDCAPEA PGLPQDPCGP DACPPAPGLP PDPCGSNCAP PDAVRAAALP POTPPQTRRR RRAKITGRER KAMRVLPVVV GAFLLCWTFP FVWHITQALC PACSVPPRLV SAVTWLGYVN SAINPVIYTV FNAEFRNVFR KALRACC</p> | Homo sapiens |
| 107 | Opioid Receptor, delta 1 (OPRD1) | NM_000911 | <p>ccgaggagcc tgcgtgctc ctggctcaca gcgtccggg cgaggagc gggcgagccg A gggggctgg ccggtgcgg cgcgaggca ggcgagag ggccagag agcgggcg ccggggcgcc gcacggcg ggctggggc ggctctgccc ttgcctccc cctcgtcgc gatccccgcg ccaggcagc cgggtgagag ggacggggc gagccggca gccatggaac cggccccctc cgcggcgcc gagctgcag cccgctctt gcccacgccc tcggacgcct accttagcgc cttccccag cgtggcgcca atgctcggg gcccagga cggggagcg cctcgtccct cgcctggca atcgccatca cgcgctcta ctcggcgtg tgcctcgtg ggctgctgg caacgtgctt gtcattgttc gctcgtccc gtacactaag atgaagacgg ccaccaacat ctacatcttc aacctggcct tagcctgagc cgtggccacc agcagcgtgc ctttccagag tgccaagtac ctgattgaga cgtggccct taccagcat cttcagctc ccttgcaagg ctgtgcttc catcgactac tacaatatgt tcaccagcat cttcagctc accatgatga gtgttgacc gctgatcaac atctgtatct ggtcctggc ctcaggcgtt cgcacgcctg ccaaggccaa gctgatcaac atctgtatct ggtcctggc ctcaggcgtt ggcgtgccc tcatggtcat ggctgtgacc cgtccccggg acggtgcagt ggtgtgcatg ctcagttcc ccagccccag ctggtactgg gacacgtga ccaagatctg cgtgttctc ttgccttcg tggtgcccc cctcatcatc accgtgtgct atggtctcat gctgtgctg cttgctgag tgccctgct gtcgggctcc aaggagaagg accgagcct gcggcgcatc agcgcatgg tgctgggtgt tgtggcgccc ttcgtgtgtt gttggcgcc catcacatc ttctcatcg tctggacgt ggtggacatc gaccggcgcc acccgtggt ggtggctgct ctcgacctg gcatcgctt gggctacgccc aatagcagcc tcaacccct gctctacgt tctctgacg agaaactcaa gcctgcttc cgcagctct cccgaagcc ctcggggccc ccagacccc gcagcttcag ccggccccg gaagccaggg cccgagagc tgcaccgcc tgacccccg ccgatggtcc cggcggtggc cgtgcgcct gaccagacca tcggggcccc agaccccc ccctagtgtt acccgaggc cacatgagtc ccagtggag gcgagacca tgatgtggag tggggccagt agatagctc gaggctttg ggaacgccc atggggcctc tgtttcggag acgggacgg gccgctagat gggcatggg tgggctctg gtttggggcg aggcagagga cagatcaatg gcgcagtgc tctggtctg gtgccccct ccacggctct aggtggggcg ggaaagccag tgactccagg agaggagcgg gacctgtggc tctacaactg agtcttaaa</p> | Homo sapiens |

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|-----|------|---|-------------|--|-----------------|
| 108 | 1267 | Opioid Receptor, delta 1 (OPRD1) | NP_000902.1 | cagggcattc ccaggaagcc ggggcttcaa ccttgagaca gcttcgggtt ctaacttgga gccggacttt cggagttggg gggtcggggg ccc MEPAPSAGAE LQPLFANAS DAYPSAFSA GANASGPPGP GSASSLALAI AITALYSAVC P AVLLGNLV MFGIVRYTKM KTATNIYIFN LALADALATS TLPFQSAKYL METWPFGEILL CKAVLSIDYY NMFTSIFLT MMSVDRIYAV CHPKALDFR TPAKAKLINI CIWVLASGVG VPIMVAVTR PRDGAUVCM L QPPSPSWYWD TVTKICVFLF AFVPIILIT VCYGLMLRL RSVRLLSGSK EKDRSLRRI T RMVLVVVGA F VVCWAPIHIF VIVWTLVIDD RYDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCFR QLCKRKPCGRP DPSSFRRPRE ATARERVTA TPSDGPGGGR AA | Homo sapiens |
| 109 | 1424 | Duffy Antigen | NM_002036 | gggctgaac caaacggtgc catgggggac tgtctgcaca gggtagtat ggggccagcc A cccagagtc cttatcccta tgcccctcat ttcccctgct gtttgcccc cagtccttat atctcttct tttctcttc atctttctc cttcccgcct ttttctctc tccttcaag tcttttctc tctctcttc ctatgctagc cttctagtc cttcttggt cctccctt gcctttgagt cagttccatc ctggctctt ggtgctttc cttctgacct tgcactgctc ctccagccc agctgcccct gcttccccag gactgttctc gctccggctc ttcaggctcc ctgctttgc ctttccact gtcgcgactg catctgactc ctgcagagac cttgttctcc caccgacct tctctctgt cctcccctc cactgccc tcaattccca ggagactctt ccggtgaac tctgatggc tctctgggt atgtctcca ggcggagctc tccccctcaa ctgagaactc aagtcagctg gacttcgaag atgtatgaa ttcttctat ggtgtgaatg attcctccc agatggagac tatgatgcca acctggaagc agctgcccc tgcactcct gtaacctgt gtagactct gactgccc tttctacct caccagtgc ctgggtatcc tagctagcag cactgtctc tctatgctt tcagacctc cttccgctg cagctctgcc ctggctggc tgctctggca cagctggctg tgggcagtc cctcttcagc attgtggtgc ccgtcttggc ccagggcta ggtagcact gcagctctgc cctgtgtagc ctgggctact gtgtctgta tggctcagc tttgcccagg ctttctgctc aggtgacct gcctccctgg gccacagact ggggtcagc caggtcccag gcctcacct ggggctcact gtgggaattt ggggagtgc tgccctactg aactgcctg tcacctgac cagtgtgct tctggtggac tctgcacct gatatacagc acggagctga agcttttgc ggcacacac actgtagcct gtcttgccat ctttgtcttg ttgacctgg gttgttttg agccaagggg ctgaagaagg cattgggtat ggggccaggc cctggatga atactcttg ggcctggtt atttctggt ggcctcatg ggtggttcta ggaactgatt tctggtgag gtccaagctg ttgctgtgt caacatgtct gggccagcag gctctggacc tgtgtgtaa cctggcagaa gccctggcaa ttttgactg tgtggtacg cccctgctc tgcccctatt ctgccaccag gccacccgca ccctcttgc ctctctccc cctctgaag gatggaattc tcatctggac accttgtaa gcaaatccta gttctcttc cactgtcaa cctgaattaa agtctacact gcctttgtg NP_002027.1 MASSGYVLOA ELSPTENSS QLDFFDVNS SYGVNDSFPD GDYDANLEAA APCHSNLLD P DSALPFFILT SVLGILASST VLFMLFRPLF RWQLCPGPV LAQLAVGSAL FSIWVPLAP GLGSTRSSAL CSLGYCVWYG SAFAQALLG CHASLGHRLG AGQVPLTLG LTVGIWVAA LTLPTVTLAS GASGGLCTLI YSTELKALQA THTVACLAIF VLLPLGLFGA KGLKKAIGMG PGPWNILWA WFIWPHGV VLGIDFLVRS KLILLSTCLA QQALDLLNL ABALAILHCV ATPLLALFC HQATRTLLPS LPPEGWSSH LDTLGSKS | Homo sapiens |

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|-----|------|--------------------------|-------------|--|-----------------|
| 111 | 1451 | EBV-Induced Gene 2 | NM_004951 | ggaattccct gatatacacc tggaccaccca ccaatggata tcaaatgggc aaacaatttt A actccgcct ctgcaactcc tcagggaat gactgtgacc tctatgcaca tcacagcagc gccagtag taatgcctct gcattacagc ctgctcttca tctatggct cgtgggaac ttactagcct tggctgctcat tgttcaaac aggaaaaaa tcaactctac caccctctat tcaacaaatt tggctgattc tgatatactt ttaccacgc ctttgcctac acgaatagcc tactatgcaa tgggctttga ctggagaac ggagatgct tgttaggat aactgcgcta gtgttttaca tcaacacata tgcaggtgtg aactttatga cctgctgag tattgacgc ttcattgctg tggcgaccc tctacgctac aacaagataa aaaggattga acatgcaaaa ggcgtgtgca tattgtctg gattctagta ttgctcaga cactccact cctcatcaac cctatgtcaa agcaggaggc tgaaggatt acatgcattg agtatccaaa ctttgaagaa actaaatctc ttocctggat tctgctggg catgttttca taggatatgt acttccactt ataatcattc tcatctgcta ttctcagatc tgcgcaaac tcttcaaac tgccaacaa aaccactca ctgagaaatc tgggtgtaac aaaaagctc tcaacacat tattcttatt attgttgtgt ttgttctctg ttccacact taccatgttg caattattca acatatgatt aagaagcttc gtttctctaa ttctctggaa ttagcctgga gacattggtt ccagatttct ctgcacttta cagtatgctt gatgaactc aattgctgca tggacccttt tatctacttc tttgcatgta aagggtataa gagaaagtt atgagatgc tgaacggca agtcagtgt tcgatttcta aagctgtgaa gtcagccct gaagaaatt cacgtgaat gacagaaacg cagatgatga tacattccaa gtcttcaat ggaagtgaa atggattgta ttttggttta tagtgacgta aactgatga caaactttgc agacttccc ttataagca aaataattgt tcagcttcca attagtattc ttttatatt ctttcattgg gcactttccc atctccact cggagtaag cccaagagaa caacataag caaacacat aaagcacaat aaaaatgcaa ataaatatt tcatttttat ttgtaaacga atacacaaa aggagcgct cttaataact cccaatgtaa aaagtattgt ttaataaaa aattttaata ttatttttg ccaacaaatg gctagaaag actgaataga ttatatattg ccagatgta atactgtaac atactttta ataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gttttgttc gttctgggtc ataaaacttt gtttaaggaac tcttttgaa taagagcag gatgctgc | Homo sapiens |
| 112 | 1451 | EBV-Induced Gene 2 | NP_004942.1 | MDIQANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFIIGLVGNL LALVTVQNR P KKINSTLYS TNLVISDILF TTALPTRYAY YAMGFDWRIG DALCRITLV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIFVWLIVF AQTLPPLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLPLI IILICYQCIC CKLFRTAKQN PLTEKSGVNK KALNTIILII VVFLCFTPY HVALIQHMIK KLRFSNFLEC SQHFSQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQVSVS ISSAVKSAPE ENSRENTETQ MMIHKSNSNG K | Homo sapiens |
| 113 | 1486 | Endothelin B Receptor | NM_000115 | gagacattcc ggtgggggac tctggccagc ccgagcaacg tggatcctga gagactccc A aggtaggcac ttgccccggt gggacgcctt gccagagcag tgtgtggcag gccccgtgg aggatcaaca cagtggctga acactgggaa ggaactggtta cttggagtctt ggacatctga aacttggctc tgaactgcg cagcgccac cggacgcctt ctggagcagg tagcagcatg cagccgcctc caagtctgtg cggacgcgc ctggttgcgc tggttttgc ctgcgcctg tcgcggatct ggggagagga gagaggcttc ccgcctgaca gggccactcc gcttttgcaa | Homo sapiens |

accgcagaga taatgacgcc accactaag acctatggc ccaagggttc caacgcaggt
ctggcggtt cggtggcacc tgcggaggtg cctaaaggag acaggacggc aggatctccg
ccacgcacca tctccctcc cccgtgccaa ggacctatcg agatcaagg gactttcaaa
tacatcaaca cggttgtgtc ctgcttctgt ttcgtgctgg ggtcatcgg gaactccaca
cttctgagaa ttatctacaa gaacaagtgc atcgaaacg gtcccaatat cttgatcgcc
agcttggctc tgggagacct gctgcacatc gcatgtga tccctatcaa tgtctacaag
ctgctggcag aggactggcc atttggagct gagatgtga agctgggtgc ttctatacag
aaagcctccg tgggaatcac tgtgctgagt ctatgtgctc tgagtattga cagatatcga
gctgttgctt cttggagtag aattaaagga attggggttc caaatggac agcagtagaa
attgttttga ttgggtggtt ctctgtggtt ctggctgctc ctgaagccat aggttttgat
ataattacga tggactacaa aggaagtatt ctgcaaatc gcttgcttca tcccgttcag
aagacagctt tcatgcagtt ttacaagaca gcaaaagatt ggtggctgtt cagtttctat
ttctgctgc cattggccat cactgcattt ttctatacac taatgacctg tgaatgttg
agaaagaaaa gtggcatgca gattgcttta aatgatcacc taaagcagag acgggaagtg
gccaaaaccg tcttttgctt ggtccttctc ttggccctct gctggcttcc ccttcacctc
agcaggattc tgaagctcac tctttataat cagaatgac ccaatagatg tgaacttttg
agctttctgt tggatttga ctatatgtgt atcaacatgg ctctactgaa ttctgcat
aaccacaattg ctctgtattt ggtgagcaaa agattcaaaa actgctttaa gtcatgctta
tgctgctggt gccagtcatt tgaagaaaaa cagtccttgg aggaaaaagca gtcgtgctta
aagttcaag ctaatgatca cggatatgac aacttccgtt ccagtaataa atacagctca
tcttgaaga agaactattc actgtatttc attttcttta tattggaccg aagtcattaa
aacaataga aacatttggc aaacaaaaac aaaaaactat gtatttgcac agcacactat
taaaatatta agtgaatta tttaacact cacagctaca tatgacattt tatgagctgt
ttacggcatg gaaagaaaat cagtggaat taagaaagcc tcgtcgtgaa agcacttaat
ttttacagt tagcacttca acatagctct taacaacttc caggatatctt acacaacact
taggcttaa aatgagctca ctacagaattt ctattcttcc taaaaagaga ttattttta
aatcaatggg actctgat ataaagaaagaa taagtccactg taaaaacagaa cttttaaatg
aagcttaaat tactcaattt aaaattttta aatcctttaa acaactttt caattaatat
tatcacacta ttatcagatt gtaattagat gcaaatgaga gacagttta gttgttgc
ttttcggaca ctggaacat ttaaatgac aggagggagt aacagaaaga gcaaggctgt
ttttgaaaat cattacactt tcaatagaag ccaaacctc agcattctgc aatatgtaac
caacatgtca caaacaagca gcatgtaaca gactggcaca tgtgccagct gaatttaaaa
tataatactt ttaaaaaagaa aattattaca tctttacat tcagttaaga tcaaacctca
caagagagaa tagaatgttt gaaaggctat ccaaaaagac tttttgaat ctgtcattca
cataccctgt gaagacaata ctatctacaa tttttcagg attattaaaa tcttctttt
tcactatcgt agcttaact ctgtttggtt ttgttactg taaatactta cctacataga
ctgcatgtag atgattaaat gagggcaggc cctgtgctca tagctttacg atggagagat
gccagtacc tcaataaaa gactgtgaac tgcctgggtc agtgtccaca tgaacaaagg
gcaggtagca cctctctca ccatgctgt ggttaaaatg gttctagca tatgtataat
gctatagtta aaatactatt ttcaaaaatc atacagatta gtacatttaa cagctacctg
taaagcttat tactaatttt tgtattattt ttgtaaatag ccaatagaaa agtttgctg

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|-----|------|--------------------------------------|---|--------------|
| 114 | 1486 | Endothelin B NP_000106.1 Receptor | <p> acatggtgct tttcttcat ctaggagcaa aactgctttt ttagaccgta agaacctctt agctttgtgc gtctctgctt aattttata tcttctaagc aagtgccctt agtagactt ggatgagat gtgtgtgaaa gtatgtacaa gagaaaacgg aagagagagg aaatgagtg gggatggagg aaacctatgg ggacagattc cctactttag cctaacttc gtcatgctt cgtcacatca atgcaaaaagg tctgattttt gttccagcaa acacagtcg aatgtttctca ggtgacttt cgaataaaat tgggcccagg agctttaact cggctttaa atagcccaa atttttactt tgtttttctt ttaataggct gggtccatag ttggaataa gctagtaag ttgttttctg tcaatattga atgtgatgg acagtaaac caccatagg attctattta taaatcccc gaaagaaaga gcaataataa ttaattcaca cactccaatc acttttcag aggcctgtta tcatagaagt aaaaacttgt tctttaattt catcccaatc caccatagg attctattta taaatcccc cattttagac tctcaatttt aaattaattt tgaattcacta atattttcac agttttataa tatatttaatt tctattttta attttagatt atttttatta ccatgtactg aatttttaca tctgtatacc ctttctctct ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaactaca cacaataaagc atacttgcat tatttataat aaaattgcat tcaatggctt tttaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat ttctttacat actcaaaacc aagatagaaa aagtggtctat cgttcaactt caaaacatgt ttcttagtat taaggacttt aatatagcaa cagacaaaat tattgttaac atggatgta cagctcaaaa gatttataa agatttttaac ctattttctc cttattatc cactgctaatt gtggatgtat gttcaaacac cttttagtat ttagatgctta catatggcca aaggaataca gttttataga aaacatgggt atgctgtagc taactttata aaagtataat ataacaatgt aaaaaattat atactcggga gatttttttg gttgcctaaa gtggtctatag ttactgattt tttattatgt aagcaaaacc aataaaaatt taagtttttt taacaactac cttatttttc actgtacaga cactaaattc taaataacta attgatgtgt taaaagaaat ataaatgtga caagtggaca ttatttatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaaatgccac atttctggtc tctggg </p> | Homo sapiens |
| 115 | 1488 | Endothelin A NM_001957 Receptor | <p> gaattcgcgg cgcctctctg cgggtccaga gtggagtggga aggtctggag ctttgggagg A agacggggag gacagactgg aggcgtgttc ctccgaggtt tctttttcgt tgcgagccct cgcgcgcggg tacagtcact cgcgtgtgtc gagagtcgtt gagagtcgtt ggcgagagaa catccatccc acccgtctgt cgcgcgggat tgggttccca cgcacacctc gcgaggagaa gcagtgccea ggaagtcttc tgaagcggg gaagtgtgc agcgaagcc gcgcccgcgc cggagccccc gacacggcc accctcgcg ccaaccacc tegtcttctc cggcttcttc tggcccaagg gccgcgggga cccggcagct gtctgcgcac gcgagctcc acggtgaaaa aaaaagtga ggtgtaaaag cagcaacaat gcaataagag atatttctc aaatttgctt </p> | Homo sapiens |

caagatggaa accctttgcc tcaggggcacc ctttttggctg gcactgggtg gatgtgtaat
cagtataat cctgagagat acagcacaaa tctaagcaat catgtggatg atttaccac
ttttctggc acagagctca gtttctgtggt taccactcat caaccacta atttggctcct
accagcaat ggtcacaatgc acaactattg cccacagcag actaaaaatta cttcagcttt
caaatacatt aacactgtga tatcttgtag tattttcac tattttcac gtgggaatgg tggggaatgc
aactctgctc aggatcattt accagaacaa atgtatgag aatggcccca acgcgctgat
agccagtctt gcccttggag accttatcta tbtggtcatt gatctcccta tcaatgtatt
taagctgctg ccttggcgtt ggccttttga tcacaatgac tttggcgtat ttctttgcaa
gctgttcccc tttttgcaga agtccctcgtt ggggatcacc gtcctcaacc tctgcgctct
tagtgttgac aggtacagag cagttgcctc ctggagtcgt gttcaggga ttgggattcc
tttggtaact gccattgaaa ttgtctccat ctggatcctg tcccttatcc tggccattcc
tgaagcgatt ggtcttctga tggtaacctt tgaatatagg ggtgaacagc ataaaacctg
tatgtcctaat gccacatcaa aattcatgga gttctaccaa gatgtaaagg actggtggct
cttcgggttc tatttctgta tgccttgggt gtgcactcgt atcttctaca cctcatgac
ttgtgagatg ttgaacagaa ggaatggcag ctgagaattt gccctcagtg aacatcttaa
gcagcgctga gaagtggcaa aacagctttt ctgcttgggt gtaattttt ctcttggctg
gttccctctt cacttaagcc gtatatgaa gaaaactgtg tataacgaaa tggacaagaa
ccgatgtgaa ttaactagtt tctactgct catggattac atcgttatta acttggcaac
catgaattca tgtataaacc ccatagctct gtatttttgg agcaagaaat ttaaaaaattg
tttccagtc a tgcctctgct gctgctgta ccagtcctcag agtctgatga cctcgggtcc
catgaacgga caagcatcc agtgggaagaa cccgatcaa acaaccaca acacagaccg
gagcagccat aaggacagca tgaactgacc ccccttagaa gcactcctcg gtactcccat
aatcctctcg gagaaaaaa tcacaaggca actgtgactc cgggaatctc ttctctgac
cttcttctt aattcactcc cacaccaag aagaaatgct ttcaaaaacc gaagggtaga
ctggtttatc caccacaac atctacgaat cgtacttctt taattgatct aatttacata
ttctgctgtg tgtattcagc actaaaaaat ggtgggagct gggggagaat gaagactgtt
aaatgaaacc agaagatat ttactacttt tgaatgaaa tagagctttc aagtacatgg
ctagctttta tggcagttct ggtgaatgtt caatgggaac tggtcaccat gaaactttag
agattaacga caagattttc tacttttttt aagtgtttt ttgtccttca gcaaacaca
atatgggctc aggtcacctt tatttgaat gtcattttgt gccagtattt ttaactgca
taatagccta acatgattat ttgaacttat ttacacatag ttgaaaaaa aaagacacaa
aatagtattc aggtgagcaa tttagattagt attttccacg tcaatttta ttttttaaa
acacaaaattc taaagctaca acaaatacta caggccctta aagcacagtc tgaagacaca
tttggcagtt taatagatgt tactcaaga attttttaag aactgtattt tatttttaa
atgggtgtttt attacaaggg accctgaaca tgttttgtat gtaaatcca aaagtaaatgc
ttcaatcaga tagttctttt tcacaagttc aatctgtttt tcaatgtaaa ttttgtatga
aaaatcaatg tcaagtacca aaatgttaat gtaatgttca ttttaactctg cctgagactt
tcagtgact gtatatagaa gtctaaaaa cactaagag aaaaagatcg aatttttcag
atgattcggga aatttccatt caggtattttg taatagtac atatatatg atatacatat
cacctcctat tctcttaatt ttgttataaa tgttaactgg cagtaagtct ttttggatca
ttcccttttc catataggaa acataatttt gaagtggcca gatgagtta tcatgtcagt

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|-----|------|---------------------------------|-------------|---|--------------|
| 116 | 1488 | Endothelin A Receptor | NP_001948.1 | <p>gaaaaataat taccacaaa tgccaccagt aacttaaga tcttcaact cttgggggttt</p> <p>tcaagtatgaa cctaactccc caccacaaca tctccctccc acattgtcac catttcaaaag</p> <p>ggccacacagt gacttttgct gggcattttc ccagatgttt acagactgtg agtacagcag</p> <p>aaaatctttt actagtgtgt gtgtgtatat atataaaca ttgtaaattt cttttagccc</p> <p>atttttctag actgtctctg tggaatatat ttgtgtgtgt gatataatga tgtgtgtgat</p> <p>ggatgtatg gatttaactc aatctaataa ttgtgccccg cagttgtgcc aaagtgcata</p> <p>gtctgagcta aaatctaggt gattgttcat catgacaacc tgcctcagtc catttaacc</p> <p>tgtagcaacc ttctgcattc ataaatcttg taatcatgtt accattacaa atgggatata</p> <p>agaggcagcg tgaagcaga tgagctgtgg actagcaata tagggttttg tttggttgggt</p> <p>tggtttgata aagcagtatt tgggttcata ttgtttctg tgctggagca aaagtcatata</p> <p>cactttgaag tattatatgt ttcttacct caattcaatg tggatgtgaa attgccaggt</p> <p>tgtctgatat ttctttcaga cttgccaga cagattgctg ataataaatt agttaagata</p> <p>attgtttggg ccataattta ggacaggtaa aataacatca ggttccagtt gcttgaattg</p> <p>caaggctaag aagtactgcc cttttgtgtg ttgacagtca aatctattat tccactggcg</p> <p>catcatatgc agtgatatat gcctataata taagccatag gtteacacca tttgttttag</p> <p>acaattgtct tttttcaag atgctttgtt tctttcatat gaaaaaatg cattttataa</p> <p>attcagaaaag tcatagatt ctgaaggcgt caactgtcat tttatttatg gactggtaag</p> <p>taactgtggt ttactagcag gaatatctcc aatttctacc tttactacat cttttcaaca</p> <p>agtaactttg tagaaatgag ccagaagcca aggcctgag ttggcagtg cccataagtg</p> <p>taaaataaaa gtttacagaa acctt</p> | Homo sapiens |
| 117 | 1598 | Calcium-Sensing Receptor (CASR) | NM_000388 | <p>SHKDSMN</p> <p>caacaggcac ctggctgcag ccagggaagga ccgcacgcc tttegcgcag gagagtggaa A</p> <p>ggaggagact gtttgccagc accgaggtct tgcggcacag gcaacgcttg acctgagtct</p> <p>tgcagaatga aaggcatcac aggagcctc tgcagtatgt ggcctccaaa gactcaagga</p> <p>ccaccacat tacaagtctg gattgaggaa ggcagaaatg gagattcaaa caccacgtct</p> <p>tctattattt tattaatcaa tctgtagaca tgttcccca ctgcaggag tgaactgctc</p> <p>caaggagaaa acttctggga gcctccaaac tcttagctgt ctcctccctt gcctggaga</p> <p>gacggcagaa ccattggcatt ttatagctgc tgcctgggtcc tcttggcact cactggcac</p> <p>acctctgctt ccgggccaga agtagcagct caaagaagg ggacattat ccttgggggg</p> <p>ctctttccta ttcatttttg agtagcagct aaagataaag atctcaaatc aagcccgag</p> <p>tctgtggaat gtatcaggtt taatttcctt ggttttcgct ggttacaggc tatgatattt</p> <p>gccatagagg agataaacag cagccagcc cttctccca acttgacgt gggatatacag</p> <p>atatttgaca cttgcaacac cgtttctaag gccttggaa cccactgag ttttgttgc</p> <p>caaaacaaaa ttgattcttt gaaccttgat gagtctgca actgctcaga gcacattccc</p> | Homo sapiens |

tctacgattg ctgtggtggg agcaactggc tcaggcgtct ccacggcagt ggcaaatctg
ctggggctct tctacattcc ccaggtcagt tatgcctctt ccagcagact cctcagcaac
aagaatcaat tcaagtcttt cctccgaacc atcccaatg atgagacca ggccactgcc
atggcagaca tcatcgagta ttcccgctgg aactgggtgg gcacaattgc agctgatgac
gactatggc ggccggggat tgagaaattc cgagaggaaag ctgaggaaaag ggatatctgc
atcgacttca gtgaactcat ctcccagtac tctgatgagg aagagatcca gcatgtggta
gaggtgattc aaaattccac ggccaaaagt atcgtggttt tctccagtgg ccagatctt
gagccctca tcaaggagat tgtccggcgc aatatcacgg gcaagatctg gctggccagg
gaggcctgg ccagctctc cctgatcgcc atgcctcagt acttccactg ggttggcggc
accattggat tgcctctgaa ggctgggcag atcccaggct tccgggaatt cctgaagaag
gtccatccca ggaagtctgt ccacaatggt ttggccaaag agttttggga agaaacattt
aactgccacc tccaagaagg tgcaaaaagg cctttacctg tggacacctt tctgagaggt
cacgaagaaa gtggcgacag gtttagcaac agctcgacag ccttccgacc cctctgtaca
ggggatgaga acatcagcag tgtcgagacc cttacacatg attacacga ttacggata
tctacaatg tgtacttagc agtctactcc attgcccacg ccttgcaaga tatatatcc
tgcttacctg ggagagggt cttcaccaat ggctcctgtg cagacatcaa gaaagttag
gggtggcagg tctgaagca cctacggcat ctaaacttta caaacaatat gggggagcag
gtgacctttg atgagtgtgg tgacctggtg gggaactatt ccatcatcaa ctggcacctc
tcccagagg atggctccat cgtgtttaag gaagtgggt attacaactg ctatgccaa
aaggagaaaa gactcttcat caacgaggag aaatctctgt ggagtgggtt ctccaggag
tgccctctct ccaactgcag ccgagactgc ctggcaggag gatcattgag
ggggagccca cctgctctt tgagtgtgtg gagtgtcttg atggggagta tagtgatgag
acagatgcca gtgctgttaa caagtgcga gatgacttct ggtccaatga gaaccacac
tctgcattg ccaaggagat cgaatttctg tctggacgg agcccttttg gatcgactc
acctctttg cgtgctggg catttcttg acagcctttg tgctgggtgt gtttatcaag
ttccgcaaca caccattgt caaggccacc aaccgagagc tctcctacct cctcctcttc
tccctgctct gctgcttctc cagctccctg tcttctcatg gggagcccca ggactggagc
tgccgctgc gccagccggc ctttggcatc agcttctgtc tctgcatctc atgcatcctg
gtgaaaaaca accgtgtcct cctggtgttt gagggcaaga tcccaccag cttccaccgc
aagtgtgtgg ggctcaacct gcagttcctg ctgggtttcc tctgcacctt catgcagatt
gtcatctgt tgatctggct ctacaccgcg cccctcaa gctaccgcaa ccaggagctg
gaggtgaga tcatcttcat cagtgccac gagggctccc tatggcctt gggtctcctg
atcggctaca cctgctgtct ggtgcccac tgccttctt ttgcttcaa gtcccgaag
ctgcccggaga acttcaatga agccaagtgc atcaacttca gcatgctcat cttcttcatc
gtctggatct cctcatctc agcctatgcc agactctatg gcaagtgtgt ctttgcctga
gagtgattg ccatcctggc agccagcttt ggttctgtgg cgtgcatctt cttcaacaag
atctacatca ttctcttcaa gccatccgc aacaccatgc aggaggtgag ttgcagcacc
gcagtcacg ctttcaaggt ggctggccgg gcaacgtgc gcgcagcaa cgtctccgc
aagggttcca gacgcttgg aggtccacg ggtaccacc cctcctctc ctaagcagc
aagagcaaca gcgaagacc attccacag ccgagaggc agaagcagca gcagccgctg
gccctaacc agcaagagca gcagcagcag ccctgacc tcccacagca gcaacgatct

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|-----|------|--|-------------|---|-----------------|
| 118 | 1598 | Calcium- Sensing Receptor (CASR) | NP_000379.1 | <p> cagcagcagc ccagatgcaa gcagaaggtc atctttggca gcggcacggt caccttttca ctgagctttg atgagcctca gaagaacgcc atggcccacg ggaattctac gcaccagaac tccttgagg ccagaaaaag cagcgatacg ctgaccggac caggccatt actcccgctg cagtgcggg aaacggactt agatctgacc gtccaggaaa cagctctgca aggacctgtg ggtggagacc agcggccaga ggtggaggac cctgaagagt tgtcccagc acttgtagtg tcagttcac agagctttgt catcagttgt ggagcgagca ctgttacaga aaacgtagtg aattcataaa atggaaggag aagactgggc tagggagagt gcagagaggt ttcttggggt cccagggatg aggaatgcc ccagactcct ttctctgag gaagaaggga taatagacac atcaaatgcc ccgaatttag tcacaccatc ttaaatgaca gtgaattgac ccattgtccc ttt </p> | Homo sapiens |
| 119 | 1676 | Formyl Peptide Receptor- Like Receptor | NM_001462 | <p> MAFYSCCWVL LALTWHTSAY GPDQRAQKKG DIILGGLFPI HFGVAAKDQD LKSRPESVEC P IRYNFRGRW IQAMIFAIEE INSSPALLPN LTLYRIFDT CNTVSKALEA TLSFVAQNKI DSLNLDEFN CSEHIPSTIA VVGATSGSVS TAVANLLGLF YIPQSVYASS SLLSNKNQF KSFLRTIPND EQOATAMADI IEYFRWNWVG TIAADDDYGR PGIEKFREEA EERDIDFDS ELISQYSDDEE EIQHVVVEVIQ NSTAKVIVVF SSGPDLEPLI KEIVRRNITG KIWLASEAWA SSSLIAMPQY FHVVGTTIGF ALKAGQIPGF REFLLKKVHR KSVHNGFAKE FWEETFNCHL QEGAKGPLPV DTFELRGHEES GDRFSNSTA FRPLCTGDN ISSVETPYID YTHLRISYNV YLAVYSIAHA LQDIYTCPLG RGLFTNGSCA DIKKVEAWQV LKHLRLHFT NNMGEQVTFD ECGDLVGNYS IINWHLSPED GSIVKEVGY YNVYAKKER LFINEEKILM SGFSREVPFS NCSRDCLAGT RKGIIIEGPT CCFECEVECPD GEYSDETDAS ACNKCDDDFW SNENHTSCIA KEIEFLSWTE PFGIALTLFA VLGIFLTAFV LGVFIKFNT PIVKATNREL SYLLFLSLLC CFSSSLFFIG EPQDWTCLRL QPAGISFVL CISCILVKN RVLVFEAKI PTFHRKWWG LNLQFLLVFL CTFMQIVICV IWLYTAPSS YRNOLEDEI IFITCHEGSL MALGFLIGYT CLLAAICFFF AFKSRKLPEE FNEAKFITFS MLIFFIYVWIS FIPAYASTYG KFVSAVEVIA ILAAISFGLA CFFNKIYII LFKPSRNTIE EVRCSTAAHA FKVAARATLR RSNVSRKRSS SLGGSTGSTP SSSISSKSNS EDFFPQPERQ KQQQLALTQ QEQQQQLTL PQQQRSSQQP RCKQKVIKFS GTVTFSLSEF EPQKNAMAHG NSTHQNSLEA QKSSDTLTRH QPLLPLQCGE TDLDLTVQET GLQGPVGGDQ RPEVEDPEEL SPALVVSQQ SFVISGGST VTENVVNS ggcacgagga acaacctatt tgcaaaagttg gcgcaaacat tcctgacctga caggacctag A gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag aattaatag acttgtagg gattgtggtg agagaaagtg aaatgaaga taagtcttag tttggaagtt ttaacaactg aatgtttaaa ctcaaataga cacaatat tggaagagtg gcaggtttgg gaggatgaga caatcaactg ttgtgttagg ccacgttagg ttgaaatgt ctacgggatc ccgtggggag aggttatatc agactggagc accagagaga ggcacaggct gtaggtttag atgaagaag agcatgatatt ttttaacct gagactggat aatatcacct atagaaaag tatatataga taagagaggt taaagaacag gggagctgc gggacactcc taaatttaga gtcaaattta gagcagaaaa tactagcaaa ggggactgaa aagcgtgtggc caattgagct tcaaatgcaa gtgaaagtgt gttgtgtgta catttatcat ctcatggcac aggaaaaacg tgatttaagg agaaggagc gatccaatgg gaagaagaga tccaatggat cctctatcac gaagatatgt agataagaac caatatggat ttgcacccac tgcatttgca gccttgaggt cataagcatc ctacaggaaa tgcaccaggt gctgtgtggca agatggaaac </p> | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 120 | 1676 | Formyl Peptide Receptor- Like Receptor | NP_001453.1 | caacttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctgggtacac tggtctcgg atcctcccat tgggtgtgct tgggtgcacc ttgtcctcg gggctcctgg caatgggctt gtgatctggg tggctggatt ccggtatgaca cgcacagtea ccaccatctg ttacctgaac ctggccctgg ctgacttttc ttaccaggcc acattaccat tcctcatgtg ctccatggcc atgggagaaa aatggccttt tggctggctc ctgtgtaagt taattcacat cgtgggtgac atcaacctct tbggaagtgt ctcttgatt ggtttcattg cactggaccg ctgcatttgt gtccctgcatc cagctctgggc ccagaaccac cgcactgtga gtctggccat gaagtgatc gtccggacctt ggattcttgc tctagtccct acctggccag ttttctctct tttgactaca gtaactattc caaatgggga cacatactgt actttcaact ttgcatcctg gggtggcacc cctgaggaga ggtgaaggt ggccattacc atgctgacag ccagagggat tatccggttt gtcatgtgct ttagcttgcc gatgtccatt gttgccatct gctatgggct cattgcagcc aagatccaca aaaggggcat gattaaatcc agcgtccct tacgggtcct cactgctgtg tgggtctctt ttctcatctg ttggtttccc ttccaactgg ttgcccttct gggcaccgtc tgggtcaaaag agatgttgtt ctatggcaag tacaaaaatca ttgacatcct ggttaaccca acgagctccc tggccttctt caacagctgc ctcaacccca tgccttaact ctttgtggc caagacttcc gagagagact gatccactcc ctgcccacca gtctggagag ggccctgtct gaggactcag cccaactaa tgacacggct gccaattctg ctccactcc tgacagagact gatttacagg caatgtgagg atgggtgcag ggatatattg agttctgttc atcctaccctaatgccagt ccagcttcat ctacccttga gtcataatga ggcattcaag gatgcacagc tcaagtattt attcaggaaa aatgtttttg tgcctctgat ttggggctaa gaaatagaca gtacggctac taaaatatta gtgttatttt tggttttttg acttctgctt ataccctggg gtaagtggag ttgggaaata caagaagaga aagaccagt gggatttgtta agacttagat gatagagcgc ataataaggg gaagacttta aagtataaag taaaatgttt gctgtaggtt ttttatagct attaaaaaaa atcagattat ggaagttttc tctattttt agtttgctaa gatttttctg tttctttttc ttacatcatg agtggacttt gcattttatc aaatgcattt tctacatgta ttaagatggt catattattc tctctctttt atgtaaatca ttataaataa tgttcattaa gttctgaatg ttaaaactact ctggaattcc tggataaacc cacacttagt cctgatgtac tttaaatatt tatatctcac aggaattggg tagaatttct gtgtttatgt ttatatactg ttatttcaat ttttctacta tccctgctaa gttttcatag aaaataagga acaagagaa acttgaatg gtctctgaaa aggaattgag aagtaattcc tctgattctg tttctcgtg ttatatcttt attaaattt cagaaaaatt c TICYNLALA DFTATLTP LIVSMAMGEX WPFGWFLCKL IHVVDINLF GSVFLIGFIA LDRICVLHP VMAQHRTVS LAMKVIVGPW ILALVLTLPV FLFTVTIIP NGDTYCTFNF ASWGGTPEER LKVAITMLTA RGIIRFVIGF SLPSIVAIC YGLIAAKIHK KGMIXSRPL RVLTAVASF FICWFFQLV ALLGTWILKE MLFVGYKII DILVNPTSSL AFFNSCLNPM LYVFGQDFR ERLHSLPTS LERALSDSA PTNDTAANSA SPPATELQA M | Homo sapiens |
| 121 | 1681 | Follicle Stimulating Hormone Receptor | NM_000145 | cgctgagatc tgtggaggtt tttctctgca aatgcagaaa gaaatcaggt ggaatggatgc A ataattatgg cctgctcctt ggtctctttg ctggcattcc tgagcttggg ctcaaggatgt catcatcgga tctgtcactg ctctaacagg gtttttctct gccaagagag caaggtgaca gagattcctt ctgacctccc gaggaatgcc attgaactga ggtttgtcct caccaagctt | Homo sapiens |

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|------|--|-------------|---|-----------------|
| 122 | Follicle Stimulating Hormone Receptor | NP_000136.1 | <p>cgagtcaccc aaaaagggtgc attttcagga tttgggggacc tggagaaaaat agagatctct cagaatgatg tcttgagggt gatagaggca gatgtgttct ccaaccttcc caaattacat gaattagaa ttgaaaaggc caacaacctg cctacatca cccctgaggc cttccagaac cttcccaacc ttcaatatct gtaatatctc aacacaggtc ttaagcacct tccagatggt cacaagattc attctctcca aaaggtttta cttgacattc aagataacat aaacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgattct atggctgaat aagaatggga ttcaagaaat acacaactgt gcattcaatg gaacccaact agatgcagtg aatctaagcg ataataataa tttagaagaa ttgcctaag atgttttcca cggagcctct ggaccagtc tctagatat ttcaagaaca aggatccatt cctgcctag ctatggctta gaaaatctta agaagctgag ggccaggtcg acttacaact taaaaaagct gcctactctg gaaaagcttg tcgccctcat ggaagccagc ctcacctatc ccagccattg ctgtgccttt gcaaaactgga gacggcaaat cctcgagctt catccaattt gcaacaaatc tattttaagg caagaagtgg attatatgac tcaggctagg ggtcagagat cctctctggc agaagacaat gagtcacgct acagcagagg atttgacatg acgtacatg agtttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgctccctt aagccagatg cattcaaccc atgtgaagat atcatggggt acaacatcct cagagtccctg atatggttta tcagcatcct ggccatcact gggaacatca tagtgctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgctgat cctgcattg gaatctacct gctgctcatt gcatacagttg atatccatc caagagccaa tatcacaact atgccattga ctggcaaat ggggcaggct gtgatgctgc tggcttttct actgtctttg ccagtgcgct gtcagtctac actctgacag ctatcacctt ggaaagatgg cataccatca cgcatagccat gcagctggac tgcaagggtgc agctccgcca tgcctgccgt gtcaggtgta tgggctggat ttttggcttt gcagctgccc tctttcccat ctttggcatc agcagctaca tgaaggtgag catctgcctg cccatggata ttgacagccc tttgtcacag ctgtatgtca tgtccctcct tgtgtcfaat gtcctggcct ttgtggtcat ctgtggctgc tatatccaca tctacctcac agtggggaac cccaacatcg tgtcctctc tagtgacacc aggatcgcca agcgcattggc catgctcatc ttcactgact tcctctgcat ggacccatt tctttctttg ccatttctgc ctcctcaag gtgcccctca tcaactgtgc caaagcaag attctgctgg ttctgtttca ccccatcaac tccttgcca acccttctct ctatgccatc tttaacaaaa acttcgcag agattcttc attctgctga gcaagtgtgg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcataccatg tccacaacac ccataccagg aatggccatt gctctcagc tcccagagtc accagtggtt ccacttacat acttgctcct ctaagtcatt tagccaaaaa ctaaaaacaca atgtgaaaaat gtatctgagt attgaatgat aattcagtcct ttgcctttga aggttatgtc acaaggagct gacagtgtct ctacacattt catctaattt aatattcctg gcataccttt aaggtaaatt ggtcagggaac tattaattcc atgtgatata taggaagct gaattattag taacaacaat aataattaaa gaatgaata ctgtaaaaaa gcggccgcga att MALLLVSLIA FLSLGSNGHH RICHCNRFV LCQESKVEI PSDLPNAIE LRFVTLKRV P IQKGFSGFG DLEKIEISQN DVLEVIADV FSNLPKHEI RIEKANNLLY ITPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSLOKVLDD IQDNNIHTI ERNSFVGLSF ESVIWLNNK GQEIHNCAF NGTQLDAVNL SDNNNLELP NDVFHGASGP VILDISRTI HSLPSYGLN LKKLRARSTY NLKKLPTEK LVALMEASLT YPSHCCAFAN WRRQISELHP ICNKSILRQE</p> | Homo sapiens |
| 1681 | | | | |

| Accession | Gene | Protein | Species | Sequence |
|-----------|---------------------------------|---------|--------------|---|
| 123 | G Protein-Coupled Receptor RDC1 | 1726 | Homo sapiens | <p>VDYMTQARGQ RSSLAEENES SYSRGEDMTY TEFDYDLNE VDVTCSPKP DAFNPFCEM</p> <p>GYNILRVLIW FISILAITGN IIVVILITS QYKLTVPREFL MCNLAFAADLC IGIYLLIAS</p> <p>VDIHTKSQYH NYAIDWQTGA GCDAAAGFFTV FASELSVYTL TAITLERWHT ITHAMQLDCK</p> <p>VQLRHAASVM VMGWIFAFAA ALFPIFGISS YMKVSIICLPM DIDSPLSQLY VMSLLVLNLV</p> <p>AFVVICGCIY HIYLTVRNPN IIVSSSDTRI AKRMWMLIFT DFLCMAPISF FAISASLKVP</p> <p>LITVSKAKIL LVLEHPINSC ANPELYAIFT KNFRDRDFIL LSKCGCYEMQ AQIYRTETSS</p> <p>TVHNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN</p> <p>gccaactcgg tgggtggtctg ggtgaatatc caggccaaga ccacaggcta tgacacgcac A</p> <p>tgctacatct tgaacctggc cattgccagc ctgtgggttg tcttcacccat cccagtcctgg</p> <p>gtggtcagtc tctgtgcagca caacctagtg cccatggcg agctcacgtg caagtcaca</p> <p>cacctcatct tctccatcaa cctctcagc agcatcttct tctcacgtg catgagcgtg</p> <p>gacgcgtacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggta</p> <p>gcgcgtgtcg tctgcatcct ggtgtggctg ctggccttct gctgtctct cctgcacacc</p> <p>tactacctga agaccgtcac gtctgcgtcc aacaatgaga cctactgcc gtcttctac</p> <p>cccgagcaca gcataaagga gtggctgata ggcattggagc tggctccgt tgtcttgggc</p> <p>tctgcgttc cctctccat tctgctgtc tctacttcc tctgtggcag agccatctcg</p> <p>gcgtccagtg accaggagaa gcacagcagc cggaagatca tcttctcta cgtgtggctc</p> <p>tctctgtct gctgggtgtc ctaccacgtg gcgtgtgttg tggacatctt ctccatcctg</p> <p>cactacatcc ctttcacctg ccgctgggag cagccctct tcacggccct gcattgtcaca</p> <p>cagtgccctg cgctgggtga ctgtgcgtc aacctgtcc tctacagctt cateaatcgc</p> <p>aactacaggt acgagctgat gaaggcctc atctcaagt actcggcca aacagggctc</p> <p>accaagctca tcatgcttc cagagtctca gagacgagat actctgcctt ggagcagagc</p> <p>accaaagtat ctgcccctga gaggctctgg gacgggtta cttgttttg aacaggtga</p> <p>tgggccctat ggttttctag agcaaaagca agtagtctcg ggtctgatg cttgagtga</p> <p>gtgaagaggg gagcacgtgc cccctgcac cattgtctct tctcttgat gagcagctg</p> <p>tcatttgct gtgcgtgctg acagtttgc aacaggcaga gctgtgtgc acagcagtc</p> <p>tgtgcgtcag agccagctga ggacaggtt gcctggactt ctgtaagata ggattttctg</p> <p>tgttctctga atttttata tggtgatttg tatttaaat ttaagacttt attttctcac</p> <p>tattggtgta ccttataaat gtatttgaaa gttataata ttttaaatat tgtttgggag</p> <p>gcatagtgct gacataatatt cagagtgttg tagttttaag gttagcgtga ctttcagttt</p> <p>tgactaagga tgacactaat tgttagctgt ttgaaataa tataataata aataataaa</p> <p>tatatgccag tcttggtgta aatgttttat ttaccatag ttatatctg tgtggtgtt</p> <p>tgtaccggca cgggatattg aacgaaaact gctttgtaat gcagtttctg acattaatag</p> <p>tattgtaaaag ttacatttta aaataaaca aaactgttc tggactgcaa atctgcacac</p> <p>acaacgaaca gttgcatttc agagagttct ctcaattgtc aggttatatt tttttaataa</p> <p>agatttttgt tctctaaaa aaaaaaaaaa aaaaa</p> |
| 124 | G Protein-Coupled Receptor RDC1 | 1726 | Homo sapiens | <p>MDLHLFDYAE PGNFSDISWP CNSSDCIIVVD TVMCPNPNK SVLLYTLISFI YIFIFVIGMI P</p> <p>ANSVVVWVNI QAKFTGYDTH VIYILNLAID LNWLTPIPW VSLVQHNQW PMGELTCKVT</p> <p>YLIFSINLFS GIFFLTCDMS DYRLSITYFT NTPSSRRKMV RRVVCILVWL LAFCVSLPDT</p> <p>YILKTVISAS NNETYCRSFY PEHSIKEWLI GMELSVVVLG FAVPFSIAV FYFLARAIS</p> <p>ASSDQEKHSS RKLIFSYVV FLVCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT</p> |

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|-----|------|------------------------------|-----------|----|---|-----------------|
| 125 | 1762 | Galanin Receptor GalR1 | NM_001480 | AK | QCLSLVHCCV NPVLYSFNR NYRYELMKAF IFKYSAKTGL TKLIDASRVS ETEYSALEQN | Homo sapiens |
| | | | | | atccccgctag aatcccgctcca gtctctgtctc gcgcaccgtg acttctaagg ggcgcggatt A | |
| | | | | | tcagccgagc tgttttcgcc tctcagttgc agcagagaag cccctggcac ccgactctat | |
| | | | | | ccaccaccag gaagcctccc aaaagagctc tcgccctgtg gacgactcgg aatccctgga | |
| | | | | | aaagccggga gggagtcgga ggcgccagcc cactggggag gtggcgctgg ggcgcgggga | |
| | | | | | tgccgcgga gcttctctg caggagccgc acagtgcact gctgcgcgt gggcagtgcg | |
| | | | | | gggaagcgc gccgggaagg ggggtctcga gcaacaggtg cagcacgcag ccgctccggg | |
| | | | | | agccaggga aaccgcggc gaagatctgg agcgttaagg cggagagaag ggtctttcca | |
| | | | | | cctgcgggc tgcagcggc ggatccctct tcccagctc cgtggtcgg cagcgggcgg | |
| | | | | | aggcgcggg gcaggggacc ccagtgtctc cgagatcacc gtcccttccc gagaaggctc | |
| | | | | | agtcgcggc tccggaacc accctcttc agaaggtgc gcgcaaaaga cggtgccacc | |
| | | | | | aggcacggc accggatccc cgtcccgct ggtcgcgc tcgggggaag ctacagatcc | |
| | | | | | taaaactgca ctctccgtg tttgcgcgg gacccctggc caccgccgc gcctgctatc | |
| | | | | | cgcctccc tcccgcgg cccgcgcgt cgcgggaca gcccgcgg ccattggagct | |
| | | | | | ggcggtcggg aacctcagc agggcaacgc gactggcg gagccccgc ccccgagcc | |
| | | | | | cgggcccgtg ttccgcatc gcgtggagaa ctctgtcacg ctggtggtgt tcggcctgat | |
| | | | | | cttcgcgtg ggcgtgctg gcaacagcct agtgatcacc gtgctggcg gcagcaagcc | |
| | | | | | gggcaagccg cggagacaca ccaacctgtt catcctaac ctgagcatcg ccgacctggc | |
| | | | | | ctacctgtc ttctgcatc ccttcaggc cacgtgtac gcgtgccc cctgggtgt | |
| | | | | | gggcgcctc atctgcaagt tcatccacta ctcttcacc gtgtccatgc tggtagcat | |
| | | | | | cttcacctg gccgcatgt ccgtggaccg ctacgtggc atcgtgcat cgcggcgctc | |
| | | | | | ctctccctc aggggtccc gcaacgcgt gctggcggtg gctgcatct gggcgctgtc | |
| | | | | | cattgccatg gcctgcggc tggcctacca ccagggcctc ttccaccgc gcgccacaa | |
| | | | | | ccagacctc tgctgggagc agtggccga cctcgcac aagaaggcct acgtggtgtg | |
| | | | | | caccttctc ttccgtacc tctgcgctc cctgctcatc tgcctctgt atgccaaggt | |
| | | | | | ccttaatcac ttgcataaaa agttgaagaa catgtcaag agtctgaag catccaagaa | |
| | | | | | aaagactgca cagacagtgc tgggtgtgtg tgtgggtgtt ggaatctct ggtgcgcga | |
| | | | | | ccacatcatc catctctgg ctgagtctgg agtttccc ctgacgcgg cttctctct | |
| | | | | | cttcagaatc accgccact gccctggcta cagcaattcc tccgtgaatc ctatcatta | |
| | | | | | tgcatcttc tctgaaaatt tcagggaagg ctataaaca gtgttcaagt gtcacatcg | |
| | | | | | caaagattca cacctgagt atactaaga aaataaagt cgaatagaca cccaccatc | |
| | | | | | aaccaattgt actcatgtgt gataaaagat agagtatct tatggttag tttccatata | |
| | | | | | agtggaccag acacagaac aaacagaatg agctagtaag cgatgctgca acttgttatc | |
| | | | | | ttacaagaa ttcaagtct tttaattaaa tcccacgtgt tttaaaagt actttgatcc | |
| | | | | | atttaggaaa ttcttagtct tagtgagaat ttttttcaa ttttatttta gttctaaatt | |
| | | | | | atgtttcaga aacaaaagac aatgctgtac agttttatc ctcttcagac atgaaaggga | |
| | | | | | acatatatat tccatatata tgttcaactc ttcatagatt gtgaactggc ccatcaatat | |
| | | | | | ggtcagggaat atttgcagtc tacattttaa agccaattta tttagaaaa aaatttgagc | |
| | | | | | tttaattctt taattttaag agaagtaata ttgtgaacta tgtattttaa aatatgatca | |
| | | | | | tggaacaca atgatgaatt ttttggccat ttacatagac atatctatta agtggaaaga | |

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|-----|------|--|-------------|---|-----------------|
| 126 | 1762 | Galanin Receptor GalR1 | NP_001471.1 | aggctttctg aagtctgttt gcacaggtgg catttgcttc caattgtagc tagcgacacag agctttggaa gctgtcatt atgagataca gtcgggtttac ctcaggagtc aattcagtg tgtactggg aactgggag cagtagtagg cactgttgat tcaaatttat cctgtgaaac tggctttata gaggtaacaa aacagagtca gagaccactg tcttaacagt ggaagatgca aataagtttt tgagaataaa actggatttt gaaattttac attagtactt gacaaaagtt ttcatttgc cttgaatgga acctactaaa aagagagatg aaaaaaatc agcaggttg atgtagataa taatttctat gggaccaaaag actagacaga attcagtaag tcacatgaag taatggtcat gctgtacat aaagcatatt tcatgtttga tttagatgac attcaaaaaa aatcatgga ctgaatatac ctgggggtatc ctatcttgta caaatgcatg ctttttcatt aaatttgtaa tgatgtttaa tgaacatttc caccaaacat tatttcctct aaaaatgta atttggggtt aaaaccatca ccatttgaat ttcaaatgta gttttcatga caattttata ttgatgtg tttacaatga gaaaatggca tgaataatt aaattgtctt gtatcg MEIAGNLSSE GNASWPEPPA PEPGLFGIG VENFVLVVF GLIFALGVLG NSLITVLAR P SKFGKPRSTT NLFILNLSIA DLYALLFCIP FOATVYALPT WVLGAFICKE IYHFTVSM VSIPTLAAMS VDRYVAIVHS RRSLLRVS RALLGVGCIW ALSIAMASPV AHQGLFHR ASNQFCWEQ WPDPRHKAY VVCTFVGYL LPLLLICFCY AKVLNHLHKK LKNMSKKSEA SKKTAQTVL VVVVFGISW LPHHIIHLWA EFGVPLTPA SFLFRITAHK LAYNSSVNP IIYAFLENF RKAYQVFKC HIRKDSHLS D TRENKSRIDT PPTNCTHV ggcagcggtg gcaggggctg caggagcaag tgaccaggag caggactggg gacaggcctg A atcgccctg cagcaaccag acccttcgcc cgcctcacga tgactacctc tccgactcctg cagctgctg ctcggctctc actgtgcggg ctgctgctcc agaggcgga gacaggctct aaggggcaga cggcggggga cgtgtaccag cgtgtgggaa ggtaccgcag ggaatggcag gagacctgg cagcgcgga accgccttca ggcctcgctt gtaacgggtc cttcgatatg taogtctgt gggactatgc tgacccaat ggcactgcc ttgctcctg cccctggtac ctgcccctgg accaccatgt ggctgcaggt ttgctcctc gccagtgtgg cagtgtggc caatggggac ttggagaga caatacaca ttggagaacc cagagaagaa tgaggccttt ctggaccaaa ggtcatctt ggagcggtg caggtcatgt acactgtcg ctactccctg tctctgcca cactgtctt agcctgtctt atcttgatt tgttcaggcg gctacattgc actagaaact ataccacat caactgttc agtctttca tgcgagcagc tgcggccatt ctcagccgag accgtctgt accctgacct ggccttacc ttggggacca ggccttgctg ctgtggaacc aggcctcgc tgcctgcgc agggccaga tgcgtaccca gtaactgcgtg ggtgccaaact acagtggct gctgtggag ggcgtctacc tgcacagtct cctggtgctc gtgggaggct ccgaggagg gcaactccgc tactacctgc tccctggctg gggggcccc gcgctttctg tcatccctg ggtgatcgtc agtacctgt acgagaacac gcaatgctgg gagcgcaacg aagtcaggc cattgtgtg attatacga ccccatcct catgaccatc ttgattaatt tccctatttt tatccgcat ttgggttc tctgtccaa cgtgaggaca cggcaaatgc gctccggga ttaccggctg aggtggctc gctccacgt gacgtgggtg ccccctgtg gtgtccaga ggtgtgttt gctccgtga cagaggaaca gggccggggc gcccctgctg tgcgaagct cggctttgag atcttctca gctcttcca gggcttctg gtcagcgctc tctactgctt catcaacaag gagggtgcagc cggagatccg ccgtggctgg caccactgcc cctgctgccc cagcctggc gaggagcaac gccagctccc ggagcgcgcc | Homo sapiens |
| 127 | 1808 | Gastric Inhibitory Polypeptide Receptor | NM_000164 | ggcagcggtg gcaggggctg caggagcaag tgaccaggag caggactggg gacaggcctg A atcgccctg cagcaaccag acccttcgcc cgcctcacga tgactacctc tccgactcctg cagctgctg ctcggctctc actgtgcggg ctgctgctcc agaggcgga gacaggctct aaggggcaga cggcggggga cgtgtaccag cgtgtgggaa ggtaccgcag ggaatggcag gagacctgg cagcgcgga accgccttca ggcctcgctt gtaacgggtc cttcgatatg taogtctgt gggactatgc tgacccaat ggcactgcc ttgctcctg cccctggtac ctgcccctgg accaccatgt ggctgcaggt ttgctcctc gccagtgtgg cagtgtggc caatggggac ttggagaga caatacaca ttggagaacc cagagaagaa tgaggccttt ctggaccaaa ggtcatctt ggagcggtg caggtcatgt acactgtcg ctactccctg tctctgcca cactgtctt agcctgtctt atcttgatt tgttcaggcg gctacattgc actagaaact ataccacat caactgttc agtctttca tgcgagcagc tgcggccatt ctcagccgag accgtctgt accctgacct ggccttacc ttggggacca ggccttgctg ctgtggaacc aggcctcgc tgcctgcgc agggccaga tgcgtaccca gtaactgcgtg ggtgccaaact acagtggct gctgtggag ggcgtctacc tgcacagtct cctggtgctc gtgggaggct ccgaggagg gcaactccgc tactacctgc tccctggctg gggggcccc gcgctttctg tcatccctg ggtgatcgtc agtacctgt acgagaacac gcaatgctgg gagcgcaacg aagtcaggc cattgtgtg attatacga ccccatcct catgaccatc ttgattaatt tccctatttt tatccgcat ttgggttc tctgtccaa cgtgaggaca cggcaaatgc gctccggga ttaccggctg aggtggctc gctccacgt gacgtgggtg ccccctgtg gtgtccaga ggtgtgttt gctccgtga cagaggaaca gggccggggc gcccctgctg tgcgaagct cggctttgag atcttctca gctcttcca gggcttctg gtcagcgctc tctactgctt catcaacaag gagggtgcagc cggagatccg ccgtggctgg caccactgcc cctgctgccc cagcctggc gaggagcaac gccagctccc ggagcgcgcc | Homo sapiens |

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|-----|------|--|-------------|---|-----------------|
| 128 | 1808 | Gastric Inhibitory Polypeptide Receptor | NP_000155.1 | <p>ttccggggccc tgcctccgg ctccggccc ggcgaggtcc ccaccagccg cggcttgctc tccgggaccc tccagggcc tgggaatgag gccagccggg agttggaaa agttgctag ggggcggtat cccgtgtct gttcagttag catgtgtcca atgcgtgccc agggccagta cggaggaagc tggggaaatg gtgaaggaaa gtccttgccc ttctggagat gacaactgag tggggaaaac agaccgtgaa cacaaaaat caagtccac acagctatg gaatggttat gaagggaagc gagaaggggg cctaggggtg tctgggagc gttccaagg aggtgacct taagccatcc ccgaagagg tgaagagat cacttgggg agagctggag aacaggattc taggcggaag cgatagcata ggcaaggcc cttggcgagg aaggcctca gcttggtg gagtagaatt aagtcagagc caacaggttg gggagagaca gagaagtgg caggggcacc caagtggga ttctattca ggtgcattgg agattcttag gagtgctct tgggggtaat attttattt ttaaaaaatg aggat</p> | Homo sapiens |
| 129 | 1813 | Gastrin- Releasing Peptide Receptor | NM_005314 | <p>MTTSPILQLL LRLSLGLLL QRAETGSKGQ TAGELYQRWE RYRRECQETL AAAPPSGLA P CNGSFDMYC WDYAAPNATA RASCPWYLPW HHHVAAGFVL RQCGSDGQWG LWRDHTQCN PERNEAFLDQ RLILRLQVM YTVGYSLSLA TLLALLLIS LFRRLHCTRN YIHINLTSF MLRAAAILSR DRLLPRPGPY LGDQALALWN QALAACRTAQ IVTQYCVGAN YTWLLVEGVY LHSLLLVGG SEEGHFRYYL LLGWGAPALF VIPWVIVRYL YENTQCWERN EVKAIWMIIR TPILMTILIN FLIFIRILGI LLSKLRTROM RCRDYRLRLA RSTLLVPLL GVHEVVFAPV TEEQARGALR FAKLGFEIFL SSFQGFVSV LYCFINKEVQ SEIRRGWHHC RLRRSLGEEQ RQLPERAFRA LPSGSGPGEV PTERGLSSGT LFGPGNEASR ELESYC</p> | Homo sapiens |
| | | | | <p>ccagattcta aatatcagga aagacgtgt gggaaaatag caggccaaaa gttcttagta A aactgcagcc agggagactc agactagaat ggaggtagaa agaactgatg cagagtgggt ttaatctaa gccttttgtt ggctaagtgt tgttgttgtt aacttattga atttagagtt gtattgcact ggtcatgtga aagccagagc agcaccagtg tcaaaatagt gacagagagt tttgaatacc atagttagta tatatgtact cagagtattt ttataaaga aggcaaatag cccggcatag atcttatctt catcttcat cggttgcaaa atcaatagtt aagaatagc atctaaggga acttttaggt gggaaaaaaa atctagagat ggctctaaat gactgtttcc ttctgaactt ggaggtggac catttcagc actgcacat ctccagtcac agtgcggatc tcccctgaa cgatgactgg tcccaccgg ggatcctcta tgtcatcctt gcagtttatg gggttatcat tctgataggc ctcatggca acatcattt gatcaagatc ttctgtacag tcaagtccat gcgaacgtt ccaaacctgt tcatttcag tctggctttg ggagacctgc tctcctaact aactgtgtgt cagtggtatg ccagcaggta cctggctgac agatggctat ttggcaggat tggctgcaaa ctgataccct ttatacagct tacctctgtt ggggtgtctg tcttcacact cacggcgctc tcggcagaca gatacaagc cattgtccgg ccaatggata tccaggcctc ccatgcccctg atgaagatct gcctcaagc cgccttattc tggatcatct ccatgtgtgt ggccattoca agctgtgccc tttctgacct ccatccttc catgaggaaa gcaccaacca gaccttcaat agctgtgccc tctaccaca ctctaattag cttcacccca aaatccattc tatggcttcc tttctgtct ttaacgtcat cccactgtcg atcatctctg tttactacta cttcattgtt aaaaatctga tccagagtgc ttacaatctt cccgtggaaag ggaatatata tgtcaagaag cagattgaat cccggaagcg acttgccaag acagtgtctg tgtttgtggg cctgttcgccc ttctgtgtgg tcccaaatca tgtcatctac ctgtaccgct cctaccacta ctctgaggtg gacacctcca tgcctccactt tgtcaccagc atctgtgccc</p> | |

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|-----|------|--|-------------|---|-----------------|
| 130 | 1813 | Gastrin- Releasing Peptide Receptor | NP_005305.1 | cttcaccaac tcttgctga accccttgc cctctacctg ctgagcaaga gtttcaggaa acagttcaac actcagctgc tctgttgcca gcctggcctg atcatcggg ctcacagcac tggaggaggt acaactgca tgacctcct caagagtacc aacctctcg tggccacctt tagctctatc aatggaaaca tctgtcaaga gcggtatgtc tagattgacc cttgattttg cccctgagg gacggttttg ctttatggct agacaggaac ccttgcatcc attgttgtgt ctgtgccctc caaagagcct tcagatgctg cctgagtggt gtagggtggg gtggggaggc ccaaatgatg gatcaccatt atattttgaa agaagc MALINDCFLN LEVDHEHCN ISSHADLPV NDDWSHPGIL YVIPAVYGI ILIGLIGNIT P LIKIFTVKS MRNVPNLFIS SLALGDLILL ITCAPVDASR YIADRWLFR IGCKLIPFIQ LTSVGVSFT LTALSADRYK AIVRPMIOA SHALMKICLK AAFIWIISML LAIPEAVFSD LHPFHEESTN QTFISCAPYP HSNELHPKIH SMASFLVYV IPLSIISVY YFIKKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVEV GLFAFCWLPN HVIYLYRSYH YSEVDTSMH FVTSICARLL AFTNSCVNPF ALYLLSKSR KQFNTQLLCC QPGLIIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV | Homo sapiens |
| 131 | 1814 | Cholecystoki nin B Receptor | NM_000731 | atggagctgc tcaagctgaa ccggagcgtg cagggaacgg gacccgggccc gggggcttcc A ctgtgccgc cggggggcgc tctcctcaac agcagcagtg tgggcaacct cagctgcgag ccctctgca ttcgcgagg cgggacacga gaattggagc tggccattag aatcactctt tacgcagtga tcttctgat gagcgttggg ggaatatgac tcatcatcgt ggtcctggga ctgagccgcc gcctgaggac tgtcaccaat gccttctcc tctcactggc agtcagcgac ctctgtctg ctgtggcttg catgcccttc accctctca ccaatctcat gggcacattc atctttggca cgtcatctg caaggcggtt tctcactcca tgggggtgtc tgtgagtgtg tccacgctaa gcctcgtggc catcgacatg gagcgtgaca gcgccatctg ccgaccactg caggcacag tgtggcgagc gcgtccccc gcgtctcgg tgaattgtag cactgggctg ctgtccggac tactcatggt gccctacccc gtgtacactg tctgtcaacc agtggggcct cgtgtgctgc agtgcgtgca tgcgtggccc agtgcgcggg tccgcccagac ctggtcccta ctgtgtcttc tgcctctgtt cttcatcccg ggtgtggtta tggccgtggc ctacgggctt atctctcgc agctctactt agggcttcgc ttgacggcg acagtgaag cgacagccaa agcagggtcc gaaaccaagg cgggctgcca ggggctgttc accagaacgg gcgttgcccg cctgagactg gcggtgttg cgaagacagc gatgctgtc agtgcaact tccagttcc cggcctgcc tggagctgac ggcgtgacg gctccagggc cgggatccgg ctcccggccc accaggcca agctgctggc taagaagcgc gtggtgcgaa tgtgtgtgtg gatcgttgtg ctttttttc tgtgttgtt gccagtttat agtgcaaca cgtggcgcg ctttgatggc ccgggtgac accgagcact ctgggtgtc cctatctctt tcatcactt gctgagctac gcctggcct gtgtcaacc cctgtgtctac tgtctcatgc accgtcgtt tccgaggcc tgccctggaa cttgcgtcg cgtgtgccc cggcctccac agctcgtccc cagggtctt cccgatgagg accctccac tccctccatt gctcgtgtt ccaggcttag ctacaccac atcagcacac tgggcccctg ctgaggagta gaggggccgt gggggttag gcagggcaaa tgacatgcac tgaccttcc agacatagaa aacacaaac acaactgaca caggaaacca acacccaaag catggactaa ccccaacgac aggaagaggt agcttacctg acacaagagg aataagaatg gacagctaca tgggaaagga ggcattgcctc tgatatggga ctgagcctgg cccatagaaa catgacactg accttgaga gacacagct ccttagcagt gaactattc | Homo sapiens |

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|-----|------|-----------------------------------|-------------|--|---|-----------------|
| 132 | 1814 | Cholecystoki nin B Receptor | NP_000722.1 | MEILKLRSV QCTGPGPGAS YAVIFLMSVG GNMIIIVLG IFGTVICKAV SYLMGVSVSV LSGLLMVPYP VYTVVQPVGP ISRELYLGLR FDGSDSDSQ RPALELTALT APGPGSGSRP PGAHRALSQA PISFIHLISY PDEDPTPSI ASLSRLSYTT ISTLPG | taacacagtgg gaactctgac aagggtgac ctgcctctca cacacataga ttaatggcac tgattgtttt agagactatg gagcctggca caggatgac tctggatgc tctagtgtg acctcacagt gaccttccc aatcagcaat gaaataacca tcaaggcctaa tctcatact ctgaccaaca ggctgttctg cactgaaaag gtcttctatc cctttccagt taaggaccgt ggcctgccc tctcttctt tcccaaatg tccaagaat aataaatgt ttggcttctt cctgaaaaa aaaaaaaa aaaaaaaa LCRPGAPLIN SSSVGNLSCE PPRIRGAGTR ELELAIRITL P YAVIFLMSVG GNMIIIVLG LSRLRTVTN AFLSLAVSD LLLAVACMPF TLLPNLMGTF IFGTVICKAV SYLMGVSVSV STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLLMVPYP VYTVVQPVGP RVLQCVHRWP SARVRQTRSV LLLLLLFFIP GVMVAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLLAKKR VVRMLLVIV LFFLCWLPVY SANTWRAFDG PGAHRALSQA PISFIHLISY ASACVNPLVY CFMHRFRQA CLETCARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLPG | Homo sapiens |
| 133 | 1834 | Glucagon Receptor | NM_000160 | ggatctggca gcgcgcgaa gacgagcggc caccggcgcc cgaccgagc ggcgccagag A gacggcgggg agccaagccg acccccgagc aggcgcgcgc ggcctctgag gctcaaaagg gcagcttcag gggaggacac cccactggcc aggacgccc agctctgct gctctgccac tcagctgcc tcggaggagc gtagctgcc cagaggcatg cccccctgcc agtgacagcc cctgccagat gtggaggca gctgctgctg ctgccagcca caggtccct cgcctcaggt acccctgctg ctgttctgca agtggagct ctacgggtgac caggtcacc acaacctgag gatggacttc ctgtttgaga agtggagct ctaggggtg caacagaacc ttcgacaagt attctgctg ctgctgccc cctccacgg agctgggtg caacagaacc ttcgacaagt attctgctg gccggacacc cccgccata ccacggccaa catctctgc cctggtacc tgcctggca ccacaaagt caacaccgt tcgtgttcaa gagatggcgg cccgacggtc agtgggtgcg tggaccccg ggcagacct ggctgtatgc ctcccagtc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatgta cagcagcttc caggtgatgt acacagtggg ctacagcctg tccctggggg cctgctctct cgccttggcc atcctggggg gcctcagcaa gctgcactgc acccgcaatg ccatccacgc gaatctgttt cgtctcttcg tgcgaaagc cagctccgtg ctggtcattg atgggtgct caggaccgc tacagccaga aaatggcga cgacctcagt gtcagacct ggctcagtga tggagcgggt gctggctgcc gtgtggccgc ggtgttcagt caatatggca tcgtggccaa ctactctgg ctgctggtgg agggcctgta cctgcacaa ctgctgggccc tggccacct ccccagagg agcttcttca gctctacct gggcacggc tgggtgccc ccatgctgtt cgtctcccc tgggcagtg tcaagtgtct gttcgagaa gtccagtgt gaccagcaa tgacaacatg ggcttctggt ggatcctcgc gttccccgtc ttcttgcca tcttgatcaa ctcttctc ttctccga tcgttcagct gctcgtggcc aagctgcggg caccgagat gcaccacaca gactacaagt tccgctggc caagtccag ctgacctca tccctctgt gggtctccac gaagtgttct ttgcttctg gacggacag cagcccgagg gcacctgc ctcggccaa cctctcttc acctcttct cagctcctc cagggcctgc tgggtgctgt cctctactgc ttctcaaca aggaggtgca gtcggagctg cggcgcggtt ggcaccgtg gcgcctggg aaagtctat gggaggagcg gaacaccagc aaccacagg cctcatcttc gccctccca gccctccca gcaaggagct | Homo sapiens | |

Homo
sapiens

134 1834 Glucagon Receptor NP_000151.1 MPPCQQRPL LLLLLACQ PQVPSAQVMD FLFEKWKLYG DQCHNLSLL PPTELVCNR P

gcagtttggg aggggtggtg gcagccagga ttcatctcg gagacccct tggctggtgg
cctccctaga ttggtgaga gcccttctg aacctgctg ggacccagc tagggctgga
ctctggcacc cagagcgctc gctggacaac ccagaactgg acgccagct gaggtgggg
gcgggggagc caacagcagc cccacacctac ccccccccc cagtggtgct gtctcgaga
ttgggacctc tctccctgca cctgccttgt cctggtgga gagtgagca gagagtcca
gggcgggagt gggggctgtg cctggaactg cgtgccagtg tccccagta tctcgccacg
tcccatgtgc atggaaatgt cctccaacaa taaagagtc aagtggtcac cgtg
tcccatgtgc atggaaatgt cctccaacaa taaagagtc aagtggtcac cgtg

TFDKYSCWPD TPANTTANIS CPWYLPWHHK VQHRFVKRC GPDQWVRGP RQPWDRDASQ
CQMDGEEIEV QKEVAKMYSS FQVMYTVGYS LSLGALLAL AILGGLSKLH CTRNAIHANL
FASFVLKASS VIVIDGLLRT RYSQKIGDDL SVSTWLSGGA VAGCRVAADF MQYGIVANYC
WLLVEGLYLH NLLGLATLPE RSFFSLYIGI GWGAPMLFV PWAVKCLFE NVQCWTSNDN
MGFWILRFP VELAILINFF IFVRIVQLLV AKLRARQMH TDYKFLAKS TITLIPLLV
HEVFAFVTD EHAQGLRSA KLFFDLFLSS FQGLLVAVLY CFLNKEVQSE LRRWHRWRL
GKVLWEERNT SNHRASSSPG HGPPSKELQF GRGGSQDSS AETPLAGGLP RLAESPF

Homo
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135 1925 Gonadotropin Releasing Hormone Receptor NM_000406

ttggttgctg gtccacttac aaacactttt catatttgta tgtctttcca atggttatcc A
tggtttgttc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa
agccttttga gttcttcaga aaataaatt atcttattca agactgattg cttataagga
acttattata gctaatatag taggcacaaat tttttttgta attctcctag atgagtcaga
acttagtttt gatgtaggta aaaattttat ggtcacaaat ctcaggtgtg agaaaatctc
ttctcttgat actctatata aatagaggat ataaaatttt caagtctgga agtagtgaga
gaagctggtg attctggaca tatagtgaca gtcaaaaagg agctcaggta caggactggt
ctaagctgct caagattcag gagacagcca gtacacagag aagctgagga aataatacag
atatatctaa aacacttctc taaccttctg tggtaacaag ctccttaaa gggctggatg
atgttggtgt cactttttat caccagcaaa ggctaagata atgtatatag taaatattta
gtaaccattt attaaataaa taaatattta agacagaata aacaagtata ataaatgaac
caataagaat gcaccatcta agtcaaaaata gccactttta tcttaacat tgtacctgct
ttggctgctg cagaagcaaa ctgtgttgga ttgacaaaat caagctgggtg atttaataaa
ttccaatgta agtcttaccg gtattgatga ataactatcc agcactcacc atgaagatta
aagaagcaac acagaaaaag ttcctaagtg gtcccaattt gaaatgatca gataacctat
aaaagaacat attcatatta tactaacata aacacatata aatgcactta cagcagttac
acagtatctt cttcaataac tagtttctct atgcattaat gtgtaataac agcaactaca
atatattgat aattataaaa accaaggcaa taatttaaaa actgattaac cgttttactc
taacttaagc atggattgga tcagtaagat tgattaataa atttgaatgc agtcagttgg
attgattcta atttaagtt ttaatttgtt tgagaataat ttaagtga tatattgtc
cagtggttca gtgtcaaca gtgtgtttga aaagaaaaa aaagaatgtt ttgagaatgt
gttaattcct taagacaatg gattttaatt ggatctgttg ttttcatttt tcttcattat
cattatacat ctgtatgttg gacagaacac taactataa tagtttttag aaagtgtttt
ttgaagttat ttaaatcata atatcatgac tgacttttga attcaaaatt aggtgtgac
tatcttctt cacttaggaa gagtggtgtg aaagccagac catctgctga ggtgctacag
ttacatgtgg ccctcagaat gcgtttggcc tgcctgtgtt tagcactctg ttggattacc

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| 136 | 1925 | Gonadotropin NP_000397.1 -Releasing Hormone Receptor | aatacacaaa acaagtttaac ctttgatctt tcacattaag tatctcaggg acaaaatttg acatcgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggt acaataaaat atcagatgca ccagagacac aggtcttgaa gctctgtcct gggaaaatat ggcaaacagt gcctctcctg aacagaatca aatcactgt tcagccatca acaacagcat ccactgatg cagggaacc tcccactct gacctgtctt ggaagatcc gagtacgggt tactttcttc cttttctg cttctgcac ctttaagtct tctttctgt tgaacttca gaagtggaca cagaagaaag agaaaggaa aagctctca agaatgaagc tgctcttaa acatctgacc ttagccaacc tgttgagac tctgattgtc atgccatgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aaagtctca gttatctaaa gcttttcttc atgtatgcc cagcctcat gatgtgtgtg atcagctgg accgtccct ggctatcac aggccctag ctttgaagc caacagcaaa gtccgacagt ccatggttgg cctggcctgg atcctcagta gtgtctttgc aggaccacag ttatacatc tcaggatgat tcatctagca gacagctctg gacagacaaa agtttctct caatgtgtaa cacactgcag tttttcaca tgggtggcctc aagcatttta taacttttc acctcagct gctcttctc catcctctt ttcactatgc tgatctgcaa tgcaaaaatc atctcacc tgacacgggt ccttcacag gacccccag aactacaact gaatcagtc aagaacaata taccagagc acggctgaag actctaaaaa tgacgggtgc atttgccact tcatttactg tctgtggac tccctactat gtcctaggaa ttgtgtattg gtttgatcct gaaatgtaa acaggtgtc agaccagta aatcactct tcttctctt tgcttttta aacctgct ttgatccat tatctatgga tattttctc tgtga | Homo sapiens |
| 137 | 1945 | Opsin, green- sensitive | atggcccagc agtgagcct ccaaggctc gcaggccgccc atccgcagga cagctatgag A gacagcacc agtccagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgtccacga tgggtgtacc acctaccag tgtctggatg atctttgtgg tcattgcac cgttttaca aatgggcttg tgctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctgttga acctggcggg cctgacctg gcagagaccg tcatgccag cactacagc gtttgaacc aggtctatgg ctactcgtg ctgggccacc ctatgtgtgt cctggaggcc tacacctct cctgtgtgg gatacaggt ctctgtctc tggccatcat tccctggag agatggatgg tggctgcaa gccctttggc aatgtgagat ttgatgcaa cgtggccatc gttgggcttg ccttctctg gatctgggt gctgtgtgga cagccccgcc catcttttgt tggagcaggt actggcccc cggcctgaag acttcacg gccagacgt gttcagcggc agctgtacc cgggggtgca gcttacctg attgtctca tggtaacctg ctgcatcacc ccaactagca tcatcgtgtc ctgtacctc caagtgtggc tggccatccg agcgtggca aagcagcaga aagatctga atccaccag aaggcagaga aggaagtgc gcgcatggtg gtgggtatgg tcttggcatt ctgcttctgc tggtgacct acgctctctt cgcattgctt gctgtgcca acctggcta cccctccac | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 138 | 1945 | Opsin, green- sensitive | NP_000504.1 | <p> cctttgatgg ctgccctgcc ggcttctttt gccaaaagtg ccactatcta caaccccggtt atctatgtct ttatgaacgg gcagtttcca aactgcatct tgcagctttt cgggaagaag gttgacgatg gctctgaact ctccagcgcc tccaaaacgg aggtctcatc tgtgtcctcg gtatcgctcg catga MAQQWSLQRL AGRHPQDSYE DSTQSSIFTY TNSNSTRGPF EGPNYHIAPR WYVHLTSVWM P IFVVIASVFT NGLVLAATMK FKKLRHPLNW ILNLAVADL AETVIASTIS VNQVYGYFV LGHPMCYLEG YTVSLCGITG LNSLAIISWE RWMVCKPFG NVRFDKLA I VGIASFWIWA AWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVQSYM IVLMTCCIT PLSIIVLCYL QWLAIRAVA KQKSESTQ KAEKEVTRM VVMVLAFCF WGPYAFFACF AAANPGYPFH PLMAALPAFF AKSATIYNPV IYVFMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA </p> | Homo sapiens |
| 139 | 1951 | Growth Hormone Secretagogue Receptor | NM_004122 | <p> atgtggaacg cgacgcccag cgaagagcgg gggttcaacc tcacactggc cgacctggac A tgggatgctt cccccggcaa cgactcgctg ggcgacgagc tgctgcagct cttccccggc ccgctgctgg cggcgctcac agccacctgc gtggcactct tcgtggtggg tatcgctggc aacctgctca ccatgctggt ggtgctgcgc ttccgagcgc tgcgcacccac caccacacct tacctgtcca gcatggcctt ctccgatctg ctcatcttcc tctgcatgcc cctggacctc gttcgctctt ggcagtaccg gccctggaac ttccggcacc tectctgcaa actcttccaa ttcgtcagtg agagctgcac ctacgccagc gtgctcacc aacacagcgt gagcgtcgag cgctacttcg ccatctgctt cccactccgg gccaaagtgg tggtcaccaa gggcggggtg aagctggtea tcttcgtcat ctgggcccgt gacctctgca gcgccgggc catctctctg ctagtcgggg tggagcacga gaacggcacc gaccttggg acacacaga gtgccgcccc accgagtttg cggtcgctc tggactgctc acggtcatgg tgtgggtgct cagcatcttc ttcttccttc ctgtcttctg tctcacggtc ctctacagtc tcatcgccag gaagctctgg cggaggaggg cgggcgatgc tgtcgtgggt gcctcgctca gggaccagaa ccacaagcaa accgtgaaaa tgcctgggtg gtctcagcgc gcgctcaggc ttctctcgc gggctcctatc ctctccctgt gccttctccc tctctctga MNATPSEEP GNLTLDLD WDASPGNDSL GDELLQLFPA PILAGVTATC VALFVVGIAG P NLTLMLVSR FRELRTTNL YLSSMAFSDL LIFLCMPDL VRLMQYRPWN FGDLLCKLFQ FVSECTYAT VLTITALSVE RYFAICFPLR AKVAVTKGRV KLVIFVIWAV AFCSAGPIFV LVGVEHENGTDWDTNECRP TEFVAVRSLG LTMVWVSSIF FFLPVFCLTV LYSLIGRKLW RRRGDAVVG ASLRDQNHKQ TVKMLGGSQR ALRLSLAGPI LSLCLLP SL </p> | Homo sapiens |
| 140 | 1951 | Growth Hormone Secretagogue Receptor | NP_004113.1 | <p> agcagccaa gcttactgag gctggtggag ggaagccactg ctgggctcac catggaccgc A cggatgtggg gggcccaagt cttctgctg ttgagcccg taccgaccgt attgggccac atgcacccag aatgtgactt catcacccag ctgagagagg atgagagtgc ctgtctacaa gcagcagagg agatgcccaa caccacctg ggtcgccctg cgacctggga tgggctgctg tgctggccaa cggcaggtc tggcgagtgg gtccacctc cctgccccga ttcttctct cacttcagct cagagtccag ggcgtgtgaa cgggattgta ctatcactgg ctggctctgag cccttccac ctaccctgt ggcctgccct gtgcctctgg agctgctggc tgaggaggaa tcttacttct ccacagtga gattatctac accgtgggcc atagcatctc tattgtagcc ctcttcgtgg ccatcaccat cctgggttgc tccaggaggc tccactgccc ccggaactac gtccacacc agctgttcac cactttatc ctcaaggcgg gacgtgtgtt cctgaaggat </p> | Homo sapiens |
| 141 | 1954 | Growth Hormone- Releasing Hormone Receptor | NM_000823 | <p> agcagccaa gcttactgag gctggtggag ggaagccactg ctgggctcac catggaccgc A cggatgtggg gggcccaagt cttctgctg ttgagcccg taccgaccgt attgggccac atgcacccag aatgtgactt catcacccag ctgagagagg atgagagtgc ctgtctacaa gcagcagagg agatgcccaa caccacctg ggtcgccctg cgacctggga tgggctgctg tgctggccaa cggcaggtc tggcgagtgg gtccacctc cctgccccga ttcttctct cacttcagct cagagtccag ggcgtgtgaa cgggattgta ctatcactgg ctggctctgag cccttccac ctaccctgt ggcctgccct gtgcctctgg agctgctggc tgaggaggaa tcttacttct ccacagtga gattatctac accgtgggcc atagcatctc tattgtagcc ctcttcgtgg ccatcaccat cctgggttgc tccaggaggc tccactgccc ccggaactac gtccacacc agctgttcac cactttatc ctcaaggcgg gacgtgtgtt cctgaaggat </p> | Homo sapiens |

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|-----|------|--|-------------|---|-----------------|
| 142 | 1954 | Growth Hormone- Releasing Hormone Receptor | NP_000814.1 | <p>gctgcccctt tccacagcga cgacactgac cactgcagct tctccactgt tctatgcaag gtctctgtgg cgcctcccca tttcgccacc atgaccaact tcagctggct gttggcagaa gocgtctacc tgaactgect cctggcctcc acctcccca gctcaaggag agccttctgg tggctggttc tcgctggctg ggggctgccc gtgctcttca ctggcacgtg ggtgagctgc aaactggcct tcgaggacat cgcgtgctgg gacctggacg acacctccc ctactggtgg atcatcaaag ggcccatgtt cctctcggtc ggggtgact ttgggctttt tctcaatatt atccgcattc tggtaggaa actggagcca gctcaggcca gctccatac ccagtctcag tattggcgtc tctccaaatc gacacttttc ctgataccac tctttggaat tcaatacatc atcttcaact tctgcccaga caatgctggc ctgggcatcc gctccccc gtagctggga ctgggttctt tccagggtt cattgttgcc atctctact gcttctcaa ccaagaggtg aggactgaga tctcacggaa gtggcatggc catgacctg agcttctgcc agctggagg acctgtgcta agtgaccac gccttccgc tcggcgccaa aggtgctgac atctatgtgc taggtgctct catcacgcca ctggagtcca cacttgaatt tgggcagcta ccacgggtct gccatgctct ggaggagcaa gggggccaca tccccacccc agctgttacc cagcccgggg caggtgcagc ccttctccc tgtctctgca tctgactctc ttttgaggtc cctgtatgtc tacctctgac tctgtggtc cctctgtgtc tgcctctatc cattcctctt actggggcct ggggctctag cccaaaggctc agaggagcca ataaactgt aatgaaaaa aaaaaaa MDRRMGAHV FCVLSPLPTV LGHMPECDF ITQLREDESA CLQAAEMPV ACVPLELLA GLLCWPTAGS GEWTLPCPD FFSHFSSSG AVRRDCTITG WSEFPFPYPV ACPVLELLA EEESYFSTVK IITYVGHSSIS IVALFVAITI LVALRLHCP RNYVHTQLFT TFLKAGRVF LKDAALFHS DTDHCSFSTV LCKVSVAAASH FATMNFWSL LAEAVYNCL LASTSPSSRR AFWLVLWAG GLPVLFTGTW VSCKLAFEDI ACWDLDDTSP YWMIKGPV LSVGVNFGLF LNIIRILVRK LEPAQGS LHT QSQYWRLSKS TLFLLPFGI HYIIFNLPD NAGLGIRLPL ELGLGSFQGF IVAILYCFIN QEVRTETSRK WHGHDELLP AWRTRAKWTT PERSAAKVLT SMC</p> | Homo sapiens |
| 143 | 2120 | Histamine H1 Receptor | NM_000861 | <p>cagggagaca tacaggattt aagaagccca tcatggagaa gacctcaat tacagagata A aaaagtittt ctgtgtgaac aagttaacac tagatggcag ataacagact gagagtgag ctgcttctga ctcgattaaa aaggagtgga gccataactg gcgctgctc tttcgccaat gagcctccc aattcctctt cctctctaga agacaagatg tgtgaggcca acaagaccac tatggccagc cccagctga tgcctctggt ggtggtcctg agcactatct gcttgggtcac agtagggctc aacctgctgg tgcgtgatgc cgtacggagt gagcgaagc tccacactgt ggggaacctg tacatgtca gcctctcgtt ggcgacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tgcctatgtc caagtgtca ctgggcccgtc ctctctgctt gtgcatgat tccatggact atgtggccag cacagctcc attttcagt tcttcatcct gtgtaccgct cgtaccgca cttgcccaga gccctcagg taccttaagt atcgtaccaa gacccagcc tcggccacca tctgtggggc ctggttcttc tctttctgt ggggtattcc cattctaggc tggaatcact tcatgcagca gacctgggtg cgcgagagg acaagtgtga gacagacttc tatgatgtca cctgggttcaa ggtcatgact gccatcatca acttctacct gcccaccttg ctcatgtctt ggttctatgc caagctctac aagcccgtag gacaacactg ccagcacccg gagctcatca ataggctcct ccttctctc tcagaaaita agctgaggcc agagaacccc aaggggggatg ccaagaaccc aggggaaggag tctccctggg aggttctgaa</p> | Homo sapiens |

aaggaagcca aaagatgctg tggttgatc tgtttgaag tcaccatcc aaaccccaa
ggagatgaaa tcccagttg tcttcagcca agagatgat agagaagtag acaactcta
ctgttttcca cttgatattg tgcacatgca ggctcggca gagggagta gcagggacta
tgtagccgtc aaccggagcc atggccagct caagacagat gagcagggcc tgaacacaca
tggggccagc gagatatcag aggatcagat gtaggtgat agccaatcct tctctgaac
ggactcagat accaccacag agacagcacc aggcaggc aaattgagga gtgggtctaa
cacaggcctg gattacatca agtttacttg gaagaggctc cgctcgcat caagacagta
tgtatctggg ttgcacatga accgcgaaa ggaggccgc aaacagttgg gttttatcat
ggcagccttc atcctctgct ggtccctta ttcatcttc ttcatggtca ttgccttctg
caagaactgt tgcaatgaac atttgacat gttcaccatc tggctgggct acatcaactc
cacactgaac cccctcatct accccttggt caatgagaac ttcaagaaga cattcaagag
aatctgcat attcgtcct aaggaggct ctgagggat gcaacaaaat gatccttatg
atgtccaaca aggaatatga ggacgaaggc ctgtgtgttg ccaggcaggc acctgggctt
tctggaatcc aaaccacagt cttaggggct tggtagtgtg gaaagtctt aggcaccata
gaagaacagc agatggcgtt gatcagcaga gagattgaac tttagaggag aagcagaatc
tttgcaagaa agtcagacct gtttcttga actgggttca aaagaaaaa aataataaaa
ataaaagaga gagagaatca gacctgggtg gaactctct gctcctcagg aactatggga
gctcagact cattgtaatt caagctttcc gagtcaagt attgacaact gaagagacac
gtggctaggg ttccactgga gaattgaaa ggaacttga gccctcctg aatggagctg
tataactgtg cagagacttt atccatgcca atagtgtctg tcccttcca ggggtcacct
tgagaggcat gacagctgtt ccacaggggc tatcctctct cagaaaaact ctctctgag
cctctttaac agcttctctc agaaccagtg tctgaaccac ctgggaaatt ctgcttatt
attcttact caaacatgtt tagagtggat agaaaattat gcagcttgca caccatcat
ctttaacccc aaatttctt tggctattaa aaagtgggtg gcaaaaggca tctcaaaaag
aaagagaaat gaaatatttt tgaatgggtt caggttaaaa attaaaaaa ggaatggggg
cagaatgcca tatttttag ggctgtacta gttttatctc attaaagccc cacaacaccc
cacaggaggg taattttcta actctagtt gcagaggagc aaattgaggt tcagcaagggt
gagagaggtg cccaaggtca catagtagt tatgtgagaa agttagagta cagatcctct
gggttttcag cttattgtag catattttct cgaaggga aaatgtgccc cttttggccg
ggcatggtag ctcaagccta taatcccagc atgttgagag gctgagggtg gcagatcatt
tgaggccagg agttcaagac cagctggcc atagtggga aacctgtct ctaataaaa
cacaaaaat atctgggcat ggtggggcat gctgtagtc ccacttactt gggaggccga
ggcacgagaa tgcctgaac ccgggaggtg gaggtgccc tgagccaaga tcagccact
gcactccagc ctgggcaaca gagcaagact ctgtctcaa aaaaaaata caatattta
acaatgtgcc ctcttaagtg tgcacagata cacatcacg gtattcccaa gagtgtggc
agctcaaaat gatagtgtt agtagacgaa cagctgacat ggaattcccc tgcactacg
gaaggggacg ctttgaagga accaagtga tttttatctg tgagtctctg tgtgtttgc
aaaaagtcat tgtaatttt catagccata cctgtgaagc aaaaactagt aaagacatag
gaacatgtag ttttacttgg tgtttatgtt gcaatctggg tgtgatttat atttaaaagc
ttgggtgctaa accacaatat gtatagcaca tggagtgctt gtacaagctg atgttttga
tttttggttc ctctttgcat gatctgtcaa agtgagatat ttttacctgc ctaaaatatg

Homo
sapiens

P

144 2120 Histamine H1 NP_000852.1
Receptor

atgttttaaaa gcataactcta tgtgatttat ttattttctac cttttctgagt ctcttggact ctcttggact
 aagaagatgt tttagaaatgt accatcaaat gtttaacagag tttagatatgg gctttctctt
 tggtttctca tcaacattgt aaatgtcttt tcaaaagat ttaactttttg taaaaagctt
 cattctcact ctgcttttga tcccccaaac ttctgtttca aaagggggg agtttaggag
 actttaatcc cggtttcaga agctgcagct ggtctgtttc caggtcagaa accattgttc
 agaagacctc cctgtgagag agttgtctct caggttccct caggaccaaa gaacactga
 aaagagcact tcacacagac aagtggctaa ggtgtccatta tttaacctga acaatcaagg
 caactagtgg agagaactga ttgtgagctc
 MSLPNSSCLL EDKMCENKT TMASPLQMLPL VVVLSTICLV TVGLNLLVLY AVRSERKLHT
 VGNLYIVSL VADLIVGAVV MPMNLYLLM SKWSLGRPLC LFWLSMDYVA STSIFSVFI
 LCIDYRSVQ QPLRYLKVRT KTRASATILG AWFLSFLWVI PILGWNHFMQ QTSVRREDKC
 ETDFYDVTWF KMTAIINFEY LPTLLMLWFY AKIYKAVRQH CQHRELINRS LPSEIILR
 PENPKGDAKK PGKESPWEVL KRPKPDAGG SVLKSPSQTP KEMKSPVVS QEDDREVDKL
 YCFPLDIVHM QAAAEGRSD YVAVNRSHGQ LKTDEQGLNT HGASEISEDQ MLGDSQSFSR
 TDSDTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQQLGFI
 MAAFILCWIP YFIFFMVI AF CNCCNEHLH MFTIWLGVIN STLNPLYPL CNENFKKTEK
 RILHIRS

145

2121 Histamine H2 NM_022304
ReceptorHomo
sapiens

A

ctctgcct ccactgact cagagaggga gatccccagt acttgactcc atcacgcaga
 tgggagcagg caccagctat ggagaggat acagctgcgt ctccacatga cccatcctgc
 atgacaccaa agccaccgc agacagtgc tcgattcta tgcacaccc ggaagcggga
 gacctaccc agccccgga ggaagctagc tcttcaggag accgtctgag gactggagt
 tgatccatga acctggcttc gaggccttc tttctctct tcttcattca tttcattcc
 caacacctta gaagggttg ctttaattat ttctagaaa gcagcccaga gtcagtcatt
 gaagccttc ccacccctg gccaaaaaaa aaaaactggac acattttgga
 tctgttggga gcttgagtc cagtgttg gcttggtg cagtagatgc ccaggatggc acccaatggc
 gcaaccagg gccctgatca ggggactgag cagtagatgc ccaggatggc acccaatggc
 acagcctct ccttttgct ggaacttacc gcatgcaaga tcaccatcac cgtggtcctt
 gcggtcctca tccatcatc cgttgctgc aatgtgtgc tctgtctg cgtgggcttg
 aaccgcgcg tccgcaacct gaccaattgt ttcactgtt ccttggtctat cactgacctg
 ctctcgcc tctgtgtgt gcccttctt gccatctacc agctgtcttg caagtggagc
 ttgggcaagg tcttctgcaa tatctacac agcctggatg tgatgctctg cacagcctcc
 attcttaacc tcttcattgat cagcctcgac cggtaactgc ctgtcatgga cccactggg
 taacctgtgc tggtaacccc agttcggtc gccatctctc tgggtctaat ttgggtcact
 tccattacc tgtcctttct gctatccac ctgggggtga acagcagga cgagaccagc
 aagggcaatc ataccacctc taagtgcata gtccaggta atgaagtga cgggctgggtg
 gatgggctcg tacccttcta cctccgcta ctaccaccta ctaccgcat
 ttcaaggctcg cccgggatca ggccaagagg atcaatcaca ttactctctg gaaggcagcc
 accatcagg agcaaaag cacagtga cttggccgc tcatggggc cttcatcatc
 tgcgtgttc cctacttcac cgcgtttgtg taccgtggg tgagaggga tgatgccatc
 aatgagggtg tagaagccat cgttctgtg cgtgggtatg ccaactcagc cctgaacccc
 atcctgtatg ctgcgctgaa cagagacttc cgcacgggt accaacagct cttctgtgc

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|-----|------|---|-------------|--|-----------------|
| 146 | 2121 | Histamine H2 Receptor | NP_071640.1 | aggctggcca accgcaact ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc aggacccaaa gccgagaacc caggcaacag gaagagaaac ccctgaagct ccaggtgtgg agtgggacag aagtcacggc ccccaggga gccacagaca ggtaaatagcc ctgacctg gtgcacagga tggggggcaat gggaggggat gctactgatg ggaatgatta agggagctgc tgtttaggtg gtgctgggtt atgttctagg aactcttcac gagcactttg taaacacct cttgcttaac cctcccaacg gcccacaaag ctgagaccta gctccctttt aaaaggagca cattaaaatt ctcagaggac ttggcaaggg ccgcacagct ggggcat MAPNGTASSF CLDSTACKIT ITWVLAVLIL ITVAGNVVVC LAVGLNRRRL NLTNCFIVSL P AITDLLGLL VLPFSAIYQL SKWSFGKVF CNIYTSLDVM LCTASILNLF MISLDRYCAV MDPLRYPVLV TPRVVAISLV LIWVISITLS FLISHLGWN SNETSKGNHT TSKCKVQVNE VYGLVDGLVT FYLPILLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTIAAVM GAFIICWFPY FTAIFYRGLR GDDAINEVLE AIVLWLGYN SALNPILYAA LNRDFRTGYQ QLFCCRLANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KIQWSGTEV TAPQGATDR tgcagcactc accatggaat ccccgattca gatcttcgc ggggagcctg gccctacctg A cgccccgagc gctgacctg ccccccaacag cagcctcctg tttcccgctg gggccgagcc cgacagcaac ggcagcgccg gctcgagga ggcgcagctg gagcccgccg acatctccc ggccatccc gtcacatca cggcggtcta ctcgtagtg ttcgctggtg gcttgggtgg caactcgctg gtcattgtcg tgatcatccg atacacaaag atgaagacag caacaaacat ttacatatatt aacctggctt tggcagatgc tttagttact acaaccatgc cctttcagag tacgggtctac ttgatgaatt cctggcctt tggggatgtg ctgtgcaaga tagtaatttc cattgattac tacaaacatgt tcaccagcat cttccacctg accatgatga gctgggaccg ctacattgcc gtgtgccacc ccgtgaaggc tttgacctc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcattctgtt ggcattctctg caatagtcct tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctctgc agtcccaga tgatgactac tctggtggg acctcttcac gaagatctgc gcttctatct ttgcttctgt gatccctgtc ctcatcatca tgcctgtcta caccctgatg atcctgcgtc tcaagagcgt cgggtcctt tctggctccc gagagaaaga tgcgaacctg cgtaggatca ccagactggt cctgggtgtg gtggcggtt tgcgtgctg ctggactccc atccacatat tcatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgccctaggc tataccaaca gtagcctgaa tcccattctc tacgcctttc ttgatgaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tccgtcttac ctgagggaca tccatgggat gaataaaacca gtatgactag tccgtggagat gctctcgtag ag IITAVYSVWF VVGLVGNLSV MFVIRYTKM KATNIYIFN LALADALVTT TMFQSTVYL MNSWPFQDVL KIVISIDY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISAIVLGDK VREDVDVIEC SLQFPDDDSY WWDLFMKICV FIFAFVIPVL IIIVCYTLM IRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSINPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV ggcgcgcccat gaagcagcgg ttctcggcg tgcagctgct gaagctgctg ctgctgctgc A | Homo sapiens |
| 147 | 2783 | Opioid Receptor, kappa 1 (OPRK1) | NM_000912 | tgcagcactc accatggaat ccccgattca gatcttcgc ggggagcctg gccctacctg A cgccccgagc gctgacctg ccccccaacag cagcctcctg tttcccgctg gggccgagcc cgacagcaac ggcagcgccg gctcgagga ggcgcagctg gagcccgccg acatctccc ggccatccc gtcacatca cggcggtcta ctcgtagtg ttcgctggtg gcttgggtgg caactcgctg gtcattgtcg tgatcatccg atacacaaag atgaagacag caacaaacat ttacatatatt aacctggctt tggcagatgc tttagttact acaaccatgc cctttcagag tacgggtctac ttgatgaatt cctggcctt tggggatgtg ctgtgcaaga tagtaatttc cattgattac tacaaacatgt tcaccagcat cttccacctg accatgatga gctgggaccg ctacattgcc gtgtgccacc ccgtgaaggc tttgacctc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcattctgtt ggcattctctg caatagtcct tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctctgc agtcccaga tgatgactac tctggtggg acctcttcac gaagatctgc gcttctatct ttgcttctgt gatccctgtc ctcatcatca tgcctgtcta caccctgatg atcctgcgtc tcaagagcgt cgggtcctt tctggctccc gagagaaaga tgcgaacctg cgtaggatca ccagactggt cctgggtgtg gtggcggtt tgcgtgctg ctggactccc atccacatat tcatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgccctaggc tataccaaca gtagcctgaa tcccattctc tacgcctttc ttgatgaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tccgtcttac ctgagggaca tccatgggat gaataaaacca gtatgactag tccgtggagat gctctcgtag ag IITAVYSVWF VVGLVGNLSV MFVIRYTKM KATNIYIFN LALADALVTT TMFQSTVYL MNSWPFQDVL KIVISIDY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISAIVLGDK VREDVDVIEC SLQFPDDDSY WWDLFMKICV FIFAFVIPVL IIIVCYTLM IRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSINPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV ggcgcgcccat gaagcagcgg ttctcggcg tgcagctgct gaagctgctg ctgctgctgc A | Homo sapiens |
| 148 | 2783 | Opioid Receptor, kappa 1 (OPRK1) | NP_000903.1 | tgcagcactc accatggaat ccccgattca gatcttcgc ggggagcctg gccctacctg A cgccccgagc gctgacctg ccccccaacag cagcctcctg tttcccgctg gggccgagcc cgacagcaac ggcagcgccg gctcgagga ggcgcagctg gagcccgccg acatctccc ggccatccc gtcacatca cggcggtcta ctcgtagtg ttcgctggtg gcttgggtgg caactcgctg gtcattgtcg tgatcatccg atacacaaag atgaagacag caacaaacat ttacatatatt aacctggctt tggcagatgc tttagttact acaaccatgc cctttcagag tacgggtctac ttgatgaatt cctggcctt tggggatgtg ctgtgcaaga tagtaatttc cattgattac tacaaacatgt tcaccagcat cttccacctg accatgatga gctgggaccg ctacattgcc gtgtgccacc ccgtgaaggc tttgacctc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcattctgtt ggcattctctg caatagtcct tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctctgc agtcccaga tgatgactac tctggtggg acctcttcac gaagatctgc gcttctatct ttgcttctgt gatccctgtc ctcatcatca tgcctgtcta caccctgatg atcctgcgtc tcaagagcgt cgggtcctt tctggctccc gagagaaaga tgcgaacctg cgtaggatca ccagactggt cctgggtgtg gtggcggtt tgcgtgctg ctggactccc atccacatat tcatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgccctaggc tataccaaca gtagcctgaa tcccattctc tacgcctttc ttgatgaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tccgtcttac ctgagggaca tccatgggat gaataaaacca gtatgactag tccgtggagat gctctcgtag ag IITAVYSVWF VVGLVGNLSV MFVIRYTKM KATNIYIFN LALADALVTT TMFQSTVYL MNSWPFQDVL KIVISIDY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISAIVLGDK VREDVDVIEC SLQFPDDDSY WWDLFMKICV FIFAFVIPVL IIIVCYTLM IRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSINPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV ggcgcgcccat gaagcagcgg ttctcggcg tgcagctgct gaagctgctg ctgctgctgc A | Homo sapiens |
| 149 | 2964 | Luteinizing | NM_000233 | aggctggcca accgcaact ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc aggacccaaa gccgagaacc caggcaacag gaagagaaac ccctgaagct ccaggtgtgg agtgggacag aagtcacggc ccccaggga gccacagaca ggtaaatagcc ctgacctg gtgcacagga tggggggcaat gggaggggat gctactgatg ggaatgatta agggagctgc tgtttaggtg gtgctgggtt atgttctagg aactcttcac gagcactttg taaacacct cttgcttaac cctcccaacg gcccacaaag ctgagaccta gctccctttt aaaaggagca cattaaaatt ctcagaggac ttggcaaggg ccgcacagct ggggcat MAPNGTASSF CLDSTACKIT ITWVLAVLIL ITVAGNVVVC LAVGLNRRRL NLTNCFIVSL P AITDLLGLL VLPFSAIYQL SKWSFGKVF CNIYTSLDVM LCTASILNLF MISLDRYCAV MDPLRYPVLV TPRVVAISLV LIWVISITLS FLISHLGWN SNETSKGNHT TSKCKVQVNE VYGLVDGLVT FYLPILLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTIAAVM GAFIICWFPY FTAIFYRGLR GDDAINEVLE AIVLWLGYN SALNPILYAA LNRDFRTGYQ QLFCCRLANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KIQWSGTEV TAPQGATDR tgcagcactc accatggaat ccccgattca gatcttcgc ggggagcctg gccctacctg A cgccccgagc gctgacctg ccccccaacag cagcctcctg tttcccgctg gggccgagcc cgacagcaac ggcagcgccg gctcgagga ggcgcagctg gagcccgccg acatctccc ggccatccc gtcacatca cggcggtcta ctcgtagtg ttcgctggtg gcttgggtgg caactcgctg gtcattgtcg tgatcatccg atacacaaag atgaagacag caacaaacat ttacatatatt aacctggctt tggcagatgc tttagttact acaaccatgc cctttcagag tacgggtctac ttgatgaatt cctggcctt tggggatgtg ctgtgcaaga tagtaatttc cattgattac tacaaacatgt tcaccagcat cttccacctg accatgatga gctgggaccg ctacattgcc gtgtgccacc ccgtgaaggc tttgacctc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcattctgtt ggcattctctg caatagtcct tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctctgc agtcccaga tgatgactac tctggtggg acctcttcac gaagatctgc gcttctatct ttgcttctgt gatccctgtc ctcatcatca tgcctgtcta caccctgatg atcctgcgtc tcaagagcgt cgggtcctt tctggctccc gagagaaaga tgcgaacctg cgtaggatca ccagactggt cctgggtgtg gtggcggtt tgcgtgctg ctggactccc atccacatat tcatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgccctaggc tataccaaca gtagcctgaa tcccattctc tacgcctttc ttgatgaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tccgtcttac ctgagggaca tccatgggat gaataaaacca gtatgactag tccgtggagat gctctcgtag ag IITAVYSVWF VVGLVGNLSV MFVIRYTKM KATNIYIFN LALADALVTT TMFQSTVYL MNSWPFQDVL KIVISIDY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISAIVLGDK VREDVDVIEC SLQFPDDDSY WWDLFMKICV FIFAFVIPVL IIIVCYTLM IRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSINPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV ggcgcgcccat gaagcagcgg ttctcggcg tgcagctgct gaagctgctg ctgctgctgc A | Homo |

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgccgt gccacgagcg ctgcgcgagg cgctctgccc tgagccctgc aactgcgtgc
ccgacggcg cctgcgctgc cccggcccca cgcccggtct cactgacta tcacttgcct
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atttcacctg catggacct atctctttt ttgccatctc agctgccttc aaagtacctc
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cttacacct caactgcaaa aatggcttca ctggatcaaa taagccttct caatccacct
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taaaaactat ttgtcattgt tacatggcat aaatttgggt ttgaataatc agaggaggtg
ttatagaaat ttgacacag taatttgggt ttgaataatc tttaaaaaac agaggaggtg
ttttgcataat ctttttttca ttttcgtaat ttgtattgca tctataaaa atattagttc
ataacagatc agaaatttaa aataaggggc tttttcttca ggtagtttga aaaacacact

2964 Luteinizing NP_000224.1 Hormone/Chor
 iogonadotrop
 in Receptor Homo sapiens

ctagagatgc actgtttcaat tcggtacgca ctaggcacat gtggctaagt taaaattaaa
 taaaatgaga aatgtagttt ctacgttgca ctacgtttca agttctcaat ggctacgtga
 agttctcaat ggctacgtgt gactagtgt taccatactg gacagcacag acacagata
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VKQFSAALQ LKLLLLQPP LPRALREALC PEPNCVDPG ALRCPGPTAG LTRLAYLP P
 NLPGLKLSI CNTGIRKFPD VTKVFSSSN FILEICDNLH ITTIPGNAFQ GMNESVTLK
 LYNGGFEEVQ SHAFNGTTLT SLELKENVHL EKMHNAGFRG ATGPKTLDIS STKLQALPSY
 GLESIORLIA TSSYSCLKLP SRETFVNLE ATLTPSHCC AFRNLPTKEQ NFSSHISENF
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 RHAILMLGG WLFSSLIAML PLVGVSNYMK VSICFPMDE TSLQVYILT ILILNVVAFV
 IICACYIKIY FAVRNPELMA TNKDTKIARK MAILIFTDET CMAPISFFAI SAAFKVPLIT
 VTNSKVLVL FYPINSCANP FLYAIFTKTF QRDFLLLSK FGCKRRRAEL YRRKDFSAYT
 SNCKNGFTGS NKPSQSTLKL STLHCQGTAL LDKTRYTEC

2976 Lysophosphat NM_001401
 idic Acid
 Receptor
 Edg2 Homo sapiens

acggcgctgt gggctcacac tgtcccgccg cggacgggct ttgtggttgg gggcgcgctg A
 gcgagtgcga gtgagagtgt gggtagcgcg tgtgcccgcg ggcgcgggtg ggtggccgtg
 cgttcttgcg agccggctcg caggaggcga ggcctcccctg ggcctcccga cccagcgcg
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 ggggccttta tcaatctgctg gactcctgga ttggttttgg tacttctaga cgtgtgctgt
 ccacagtgcg acgtgctgcg ccatgagaaa ttcttctctt ccttctgcta attcaactct

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|-----|------|---|-------------|---|-----------------|
| 152 | 2976 | Lysophosphat idic Acid Receptor Edg2 | NP_001392.1 | <p>gcatgaacc ccatcattta ctctaccgc gacaaagaaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaacccc accggcccca cagaaggctc agaccgctcg gcttcctccc tcaaccacac catcttggtt ggagttccca ggaatgacca ctctgtggtt tagaaccgaa actgagatga ggaaccagcc gctctctctt ggaggataaa cagcctcccc ctacccaatt gccagggcaa ggtggggtgt gagagagag aaaagtcaac tcatgtactt aaacactaac caatgacagt atttgttctt ggaccccaac agacttgata tataatgaaa attagcttat gtgacaaccc tcatcttgat cccatccct tctgaaagta ggaagttgga gctcttgcaa tggaaattcaa gaacagactc tggagtgtcc atttagacta cactaaactag acttttataaa gattttgtgt ggtttgtgtc agtcagaat aaattctggc tagttgaatc cacaacttca ttatatata ggttccctt ttttatcttt aaaggatacg tttcacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgcctttaaa ctaccataat tccatttttt cctttacata ggaatactgt aagttggaat tatcttttgt ttagaaagca tgcattgtaat gtatgtatgc agtatgcctt acttaaaaaag attaaagga tactaatgtt aaatcttcta ggaataagaa cctagacttc aaagccagta tttgtttagg tcatgaagca acaaatgtct taatcacaat attaactgtt taattaaaa gttgtaacaa gtataaaaca gggaatgtaa gtttataacc aaagtatat gtattccaaa aaagtcatag aagatgaagc actataatat tgttcccata tatttaaaa acccaagtac attctaatta ccagtatac agaggaaaat ttctgtatgc tttgtaaat aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaacca gaagtaacca cctttaaaaa gcaaccccca tgtatgcta tatgtgatt gtatactttt tttacataat tggagtcata ctgtaaacag tttataagt agatcttttt cattgcaaaa ttgccacatt ttcttatggc attaaaaat ttacaaaaac ataattttaa tggctatat atattccatt taatggatgc aactcagttt atttaaccat tcccagtgtg ttaactatatt aggtgtttc taattttcat tattataag ttgcagaat ttggtgt</p> <p>IFIMLANLV MVAIYVNRFF EPQCFYNESI AFFYNRSKGK LATEWNTVSK LVMGLGIVC P WLLRQGLIPT SLTASVANLL AIAIERHITV FRMQLTRMS NRRVVVIVV IWTMAIVMGA IPSVGNVIC DIENCSNMAP LYSDSYLVFW AIFNLVTFV MVLYAHIFG YVRQTRMS RHSSGPRRNR DTMSLLKTV VIVLGAFLIC WTPGLVILL DVCCPQCDVL AYKFFLLIA EFNSAMNPPI YSYRDKEMSA TFRQILCCQR SENPTGPTES SDRSASSLNH TILAGVHSND HSV</p> | Homo sapiens |
| 153 | 3038 | G Protein- Coupled Receptor MRG | S78653 | <p>ttttgtattt gttgcaccc aagtcgtgtc atttcttctt cctcagctga cattggagc A atagcagtcg atgatgcca cacagacact gcctgagact cagccctctg gagaacgcga gatttcccta tttccaggt caagtcctgc cagccctaga aaggacttct ttggtgcaaa ctgctgtgaa atgcctgctt tggaaatctc agtgcctcct tgaactgtc tgagccagg gaaatgccat actgtggcac tgcctgcatcc tgtatggcta ccaaggatg cccaggactg gtttgaaaga gatgagacat ggccaggtgc gtggtctacg cttgtaatcc agcactttgg gaggtcaagg cagtggatca caaggtcaga gttgagacca gccaggccaa tatggtgaaa accccatctc tactaaaaat acaaaaaatt agccgggcaa tgggtggtggg tgcctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctggaaggt ggaggttcca gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtggagac tccaactcaa</p> | Homo sapiens |

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|-----|------|---------------------------------------|------------|--|--------------|
| 154 | 3038 | G Protein- Coupled Receptor MRG | AAB21255.1 | <p> aaaaaaaaaa aaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttccaatgt ttagtgcctc attagtccc aacaacaaga tattgggtct atgtgggtag gctggggga tctgtacaa caggagatgt gttaggggag ggagaaacaga tcacaaattc atggagagct atttgacag cagatactcc catccactct gatattgtat taatgttcag ctgttcctaa aaagcacacc caacaatggg tgttctattc cagcctaggga aaatgtagag gcaaggggtc tgaggccaga ggacaccact agatggacca ctgctccctga ctgtgatgtt gtggcccact caggtcccag caccctagg tctgggggaa aatttgcctg ttccagccaga gggctggatg gacagtgtt gctgagtcac agatatctct ctcatgttagc ctttctctcc acagtgtga ccaggaggca cagaacccaa accctgtatc tcagctctgt ggctctttc ttcaaaatga gacgaatgaa accatacata tgcagatgag catggcagtg ggacagcagg cctgcccctt gaatatcatt gcccccaagg ctgtgctggt ctcccctctgt gggtctttat tgaatggcac tgtcttctgg ctgctttgct gtggggccac gaatccctac atgggtataca tectccacct ggtcgtgct cagtgatct atctttgtg ctggtcagtg gggttcttac aggtgacct gctaaactt catgagatg tgtttttt ccttgatttc ctggccatat tgtctccctt ctcctttgag gtgtgtctct gtctcctggt ggccatcagc acagagcgtt gtgtgtgtgt cctcttccc atctgttaca gatgccaccg cccaaatac acatctaata gtgtctgac cctcatctgg ggcctgcctt ttgcatcaa catagtaaaa tcaattttcc taacttactg gaaacatgta aagcagatgt tcatatttct aaagctttct gggctcttcc atgtatctt ttcacttgt atgtgtgtgt cgagtctgac tctactcatt agattcctgt gctgctcca gcagcaaaag gccaccagg tctatgcggt ggtgcagatc tgggccccca tgttctact ctgggccccta cccctgagcg tggcaccct cataacagat ttcaaaaatgt ttgtcaccac ctctatttta attccttctg tctcattat aaacagcagc gccaacctta tcatattt ctttgtggg agcctcagaa agaaaaggct gaaggaaatct ctccagatga ttctccaaag ggcgttagca gataagccag aggtggggag gaacaaaaag gcagctggca tcgacccaat ggagcaacca cactctact agcatgtgga gaaccttctt cccagggagc acagggtcga tgtggaaaca taatttccca catctgagct ggggaattgt acacatagta accagcctg ttctgcatca taaggctgct gcatcaaatc aatgctttat tctaatacag ttcagctttc atggactttc aaaaacaccc ctgtgtgttt gtggttgga gagacattaa ctctcttct aggcagtaag cccagtttga atgtgtcca gttcccaacga tgagggggaat gggacccagt gagactttcc tggtaacctg ggaatccaa taaagacct acaaggcat gaattc </p> | Homo sapiens |
| 155 | 3057 | Melanocortin 3 Receptor (MC3R) | NM_019888 | <p> atgagcatcc aaaagaagta tctggaggga gatattgtct ttcctgtgag cagcagcagc A ttctacgga cctgctgga gccccagctc ggatcagccc ttctgacagc aatgaatgct tcgtgctgcc tgcctctgt tcaagccaaca ctgcctaag gctcggagca cctccaagcc </p> | Homo sapiens |

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|-----|------|--|---|--------------|
| 156 | 3057 | Melanocortin NP_063941.1 3 Receptor (MC3R) | <p> cctttcttca gcaaccagag cagcagcgcc ttctgtgagc aggtcttcac caagcccgag atcttcttgt ctctgggcat cgtcagtgctg ctggaataca tcttggttat cctggccgtg gtcaggaacg gcaacctgca ctcccgatg tacttttttc tctgcagcct ggccgtggcc gacatgctgg taagtgtgtc caatgccctg gagaccatca tgatgcccat cgtccacagc gactacctga ccttcgagga ccagttatc cagcacatgg acaacatctt cgaactccatg atctgcatct ccttggtggc ctccatctgc aacctctgg ccacgcccgt cgacaggtac gtcaccatct tttaacgcgt ccgtaccac agcatcatga ccgtgaggaa ggccttcacc ttgatcgtgg ccactgggt ctgctgggc gtctgtggcg tgggttctac cgtctactcg gagagcaaaa tggatctgt gtgcctcatc acctgttct tcgccatgat gctctctatg ggcaccctct acgtgcacat gttctctttt gcgcggctgc acgtcaagcg catagcagca ctgccacctg ccgacggggt ggcaccacag caaacactcat gcatgaaggg gcaggtcacc atcaccattc tcttgggcgt gttcatcttc tgcctggccc ccttctctc ccacbtggtc ctcatcatca cctgcgccac caacctctac tgcattctgt acactgccc cttcaacacc tacctggctc tcatcatgtg caactcgtc atcgaccac tcatctacgc ttcccgagc ctggaattgc gcaacacct tagggagatt ctctgtggct gcaacggcat gaacttggga tag </p> | Homo sapiens |
| 157 | 3058 | Melanocortin NP_005912 4 Receptor (MC4R) | <p> tag MSIQKYLEG DFVFPVSSS FLRTLLEPQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFESNQSSA FCEQFIKPE IFLSLGIVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLVSVSNAL ETIMIAIVHS DYLTFEDQFI QHMDNIFDSM ICISLIVASIC NLLAIAVDRY VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGVWFIVYS ESKMIVICLI TMFFAMMLIM GTLVYHMFLE ARLHVKRJAA LPPADGVAPO QHSCMKGAVT ITILLGVFIF CWAPFFLHLV LIITCTPNPY CICYTAHENT YLVLMCNVS IDPLIYAFRS LELNRTFREI LCGCNGMNLG atggtgaact ccaccacccg tgggatgcac actctctgc acctctgaa ccgcagcagt A tacagactgc acagcaatc cagtgcagtc cttggaagag gctactctga tggaggggtg tacgagcaac tttttgtctc tcttgaggtg tttgtgactc tgggtgtcat cagcttgtg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac tttttcatct gcagcttggc tgtggctgat atgctgggtga gcgtttcaaa tggatcagaa accattatca tcacctatt aacagtaga gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agctccttgc ttgcattcat ttgcagcctg ctttcaattg cagtgagacg gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg caccgtttca ggcattttgt tcatcattta ctacagatag agtgcgtgta tcatctgct catcacattg ttcttcacca tgcgtgctct catggcttct ctctatgtcc acatgttct gatggccagg cttcacatta agaggattgc tgcctctccc ggcactgggt ccaccgccca aggtgccaat atgaaggagg cgtattacct gaccatctct atggcgctc ttgtgtctg ctgggcccc ttcttctctc acttaaat attacatctct tgcctcaga atccatttg tgtgtgcttc atgtctcact ttaacttgta tctcactg atcatgtga attcaatcat cgtacctctg attatgcac tccggagtga agaactgagg aaaaacctca agagatcat ctgttgctat cccttgggag gcctttgtga cttgtctagc agatattaa </p> | Homo sapiens |
| 158 | 3058 | Melanocortin NP_005903.1 4 Receptor | <p> ENILVIAIA KKNKLNHSPY FFICSLAVAD MLVSVSNGSE TIIITILNST DTDACSFTVN MVNSTHRGMH TSLHLNRRSS YRLHNSASES LGKGYSDGGC YEQLFVSPEV FVTLGVISLL P </p> | Homo sapiens |

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|-----|------|--|--------|---|--------------|--|--------------|
| 159 | 3059 | Melanocortin NM_005913 5 Receptor (MC5R) | (MC4R) | IDNVIDSVIC SSSLASICSLS LSIADVRYFT IFYALQYHNI MTVKRVGIII SCIWAACTVS GILFIYSDS SAVIICLITM FETMLALMAS LYVHFMELMAR LHIKRIAVLP GTGAIRQGAN MKGAITLTIL IGVFVVCWAP FFLHLIFYIS CPQNPYCVCF MSHENLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGICDLSS RY atgaattcct catttcacct gcatttcttg gatctcaacc tgaatgccac agaggggcaac A ctttcaggac ccaatgtcaa aaacaagtct tcaccatgtg aagacatggg cattgctgtg gagtggttc tcaatctggg tgtcatcagc ctcttggaga acatcttggg cataggggccc atagtgaaga acaaaaacct gcactcccc atgtacttct tcgtgtgcag cctgggcagtg gcggacatgc tggtagatgc gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agacgcctt gtgcgccaca ttgacaatgt gtttgactcc atgatctgca ttccgtggt ggcattccatg tgcagcttac tggccattgc agtggatagg tacgtcacca tcttctacgc cctgcgtac caccacatca tgacggcgag gcgctcaggg gccatcatcg cggcatctg gctttctgc acgggtgcg gcattgtctt catcctgtac tcagaatcca cctacgtcat cctgtgctc atctccatgt tcttgcctat gctgttctc ctggtgtctc tgtacataca catgttctc ctggcgccga ctacagtcac gcggatcgcg gctctgccc gggccagctc tgcgcggcag aggaccagca tgacggggcg ggtcacccgc accatgctgc tggcggtgtt taccgtgc tgggcccctg tcttcttca tctcaactta atgctttctt gccctcagaa cctctactgc tctcgcttca tgtctcactt caatatgtac ctcatactca tcatgtgtaa ttccgtgatg gacctctca tatatgcctt cgcagagccaa gagatgcgga agaccttaa ggagattatt tgtcgccgtg gtttcaggat cgcctgcagc tttccagaa gggattaa 160 | 3059 | Melanocortin NP_005904.1 5 Receptor (MC5R) | Homo sapiens |
| 161 | 3061 | Melanocortin NM_002386 1 Receptor (MC1R) | | ggagagggtg tgagggcaga tctgggggtg ccagatgga aggagcgag catgggggac A acccaaggcc cctgggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tgcctcctg acaggactat ggcgtgtgcag ggatcccaga gaagacttct gggctccctc aactccacc ccacagccat ccccagctg gggtggctg ccaaccagac aggagcccgg tgcctggagg tgcctatctc tgacgggctc ttctcagcc tggggctggt gagcttgggt gagaacgcgc tgggtgtggc caccatcgcc aagaaccgga accgtcactc accatgtac tgcctcatct gctgctggc cttgtcgagc ctgctgggtg gcgggagcaa cgtgctggag acggcgtca tctcctgct ggaggccggt gcactgggtg cccgggctgc ggtgctgcag cagctggaca atgtcatgga cgtgatcacc tgacgtcca tgcgtccag cctctgctc ctggcgcca tgcctgtgga cgcctacacc tccatcttct acgcactgc ctaccagc atctgacc tgcgcggggc gcggcaagcc gttgcggcca tctgggtggc cagtgtcgtc ttacagcgc tctcatcgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc ttcttctggt ctatgctggt gctcatggcc gtgctgtacg tccacatgct ggcccgggccc tgcagcagc cccaggcat cgcgcggctc | Homo sapiens | | |

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|-----|------|--|--|--------------|
| 162 | 3061 | Melanocortin NP_002377.2 1 Receptor (MC1R) | <p>cacaagaggc agcgccgggt ccaccagggc ttggccctta aaggcgctgt caccctcacc atcctgtgg gcattttctt cctctgtgg ggcctctctt tctgcatct caccctcacc gtcctgtgg ccagacacc cagtgcggg tgcatttca agaacttcaa cctctttctc gccctcatca tctgcaatgc catcatgac cccctcatct acgctttcca cagccaggag ctccgcagga cgctcaagga ggtgctgaca tgcctctggg gagcggggtg cagcgctttt aagtggtgtg ggcagaggga ggtggtgata ttgtgtgggc ttggttctgt gtgacccctgg gcagttcctt acctccctgg tcccggtttg tcaagagga tggactaaat gatctctgaa agtgttgaag</p> | Homo sapiens |
| | | | <p>LGSLNSTPTA IPQLGLAANQ TGARCLEVSI SDGLFLSLGL VSLVENALVV P ATIAKNRNLIH SPMYCFICCL ALSDLLVSGS NVLETAVILL LEAGALVARA AVLQQLDNVI DVITCSSMLS SLCFLGAIIV DRYISIFYAL RYHSIVTLPR ARQAVAAIIV ASVVFSTLFI AYYDHVAVLL CLVFFLAML VIMAVLYVHM LARACQHAQG IARLHKRQRP VHQGFGLKGA VTLTILIGIF FLCWGPFFLH LTLIVLCPEH PTCGCIKFNF NLFALILIEN AIIDFLIYAF HSQELRRTLK EVLTCSW</p> | |
| 163 | 3079 | Melatonin Receptor type 1a | <p>ccggcgagc cttacaagt ggtcgggcgg gggagcagg cgggcatgg cctgcgggc A gggacgcgaa caggaccat gcagggaac gcagcgcg cgcgcaacgc ctccagccc gtgctccgg gggacggcg cggccctcg tggctggcg cgcgcttagc ctgctcctc atcttcacca tctggttgga catcctggg aacctctgg tcatcctgtc ggtgtatcgg aacaagaagc tcaggaaagc aggaacatc tttgtggta gcttagcgg ggcagacctg gtggtggcca ttatccgta ccggtgggtg ctgagtgcga tatttaacaa cgggtgggaa ctgggctatc tgcactgcca agtcagtggg ttcctgatgg cctgagcgt catcgctcc atattcaaca tcaccggcat cggcatcaac cgctactgct acatggcca cagtcctcag tacgacaaac tgtacagcag caagaactcc ctctgctacg tgcctctcat atggctcctg acgtggcgg ccgtcctgcc caacctcgt gcagggactc tccagtacga cccgaggatc tactcgtga ccttcgcca gtccgtcagc tccgctaca ccatcgccgt ggtggttttc cacttctcg tcccctgat catagtcat tctgttacc tgagaaatg gatcctggtt ctccaggtca gacagagggt gaaacctgac cgcaaaccca aactgaaacc acaggacttc aggaatttg tcaccatgtt tgtggtttt gtctctttg ccatttgctg ggtcctctg aacttcattg gcctggcgtt ggcctctgac cccgcagca tggtgctag gatccagag tggtgtttg tggccagtta ctacatggc tatttcaaca gctgcctcaa tgccattata tacgggctac tgaaccacaaa tttcaggag gaatacagga gaattatgt ctgctctgt acagccaggg tgttctttgt ggacagctct aacgaactgg ccgtaggggt taaatggaaa ccgtctccac tgatgaccaa caataatgta gtaaggtgg actccgttta aaaaagcacc acgttcggg tgagatggac acgtgcgca aggcctcgt cttgacagat gtctgggaaa gcagagtgg ggaggaaact tccaacttt acctgctgc tgcatagtt tctgagctaa cgtgctgta gcattataaa cccctccaat ctactagta agagaagtac agaattgatg gagagttaca tgttaactga ggaatgcgtt tcagggctgg ggtgagagta agctgctgaa tgcattcagg ggaaggagtg tgcaacttt tatgtaat ggtgcccaca aaaggggtaa ttgcattctt cttcactttt tgaagacttc tagcagaaaa atgaagaga attttatta taaatgagca aatggaacaa ttttttttct gtaaatggaa caaacaatga aagtgggggtg agtgcctctt attacagagg gaaaggcgtga acataaatca gtaaatggct catcaaat</p> | Homo sapiens |

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|-----|------|----------------------------------|-------------|--|-----------------|
| 164 | 3079 | Melatonin Receptor type 1a | NP_005949.1 | <p>caaacacaca accaacacaca caaacctttc agctgggcaga gttagcattg ggtagctata ctcatggtca taaatgtttg ccgtctata ttcaagttg tgcattgcaac cagataaaga actaaatcat aggcgggga cagtcgtctca cactgtaat ctgagcactt tgggaggctg aggtgggcag atcaactgag ttccaggagt ttgagaccac ctggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggcatggt gcacacgcct ttaatccccag ctactcagga gactgagtta ggagaatccc ttggccccca gagcagaggg ttgtggtgag ccgagatcgc gccagtagcat tccaacttag gctacagaat gagactctgc ccaaaaaaa aaaaaaa</p> | Homo sapiens |
| 165 | 3080 | Melatonin Receptor type 1b | NM_005959 | <p>MQNGSALPN ASQPVLRGDG ARPSWLASAL ACVLIFTIV DILGNLLVIL SVYRNKKLRN P AGNIFVVSIA VADLVVAIYP YPLVLSIFN NGWNLGYLHC QVSGFILGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYVLL IWLTLAAVL PNLRACTLQY DPRIYSCITFA QSVSSAYTIA VVVFHFLVPM IIVIFCYLRI WILVLQVRQR VKPDRPKPKL PQDFRNFVTM FVVFVLEAIC WAPLNFIGLA VASDPASMVP RIPEWLFVAS YMYAVENSCL NAIYGLLNQ NFRKEYRRII VSLCTARVEF VDSNDVADR VMKPSPLMT NNNVVVDSV</p> <p>acgcgagctg ggcagggaag agagcggccg gctcagtact gcgcggccgc tgcggctgtc A cggggcgcg cggtggccaa agcacagcgc gggagagtct gcgagtgcag agaacggctc cttcgccaa tgctggaggg cgggcggtg ggcagtgccg ccgggtgtgt cgggggctgg cagcgcgcg ccctccagga cccctcgacc tccctgggtg gctccagcgc tgcctcggt gctcagctc accacgcgc tggacgtcgt gggcaacctc ctggtgatcc tctcgtgct caggaaccgc agcttcgga acgcaggttaa ttgtctctg gtgagtcctg cattggctga cctggtgtg gctttctacc cctaccgctt aatcctgtg gccattctt atgacggctg ggccctggg gagagcact gcaaggccag cgcctttgtg atgggcctga cgtcatcgg ctctgtctc aatatactg ccatacgcat taaccgtac tgctacatct gccacagcat ggctaccac cgaatctacc ggcgctggca caccctctg cacatctgct tcatctggct cctcacctg gtggccttg tgcaccaatt ctttggggg tccctggagt acgacccacg catctattc tgcacctca tccagacgc cagcaccag tacacggcg cagtgtgtgt catccactc ctctcccta tcgctgtct gtctctctg tactgcgca tctgggtgtg ggtgcttcag gccgcagga agccaagcc agagagcagg ctgtgctga agccagcga cttgcgagc ttcttaacca tgtttgtgtg gtttgtgac tttgceatct gctgggctcc acttaactg atcgccctg ctgtggccat caaccacca gaaatggct cccagatccc tgaggggcta ttgtcacta gctactact ggctatttc aacagtgcc tgaatgccat tgtctatgg ctcttgaacc aaaactccg cagggataac aagagatcc tcttggccct ttggaaccca cggcactgca ttcaagatgc ttccaaaggc agccacggg aggggctgca gagccagct ccaccatca ttggtgtgca gaccagga gatgctctct agcctggatc tgaggcacac cagcagcatg aaaaactcat gaaatgtgg gagagatct cgtgcaaggg tgagaccag cagcctgctg gccacactg tctgtgtgac atcacagccc caaggctggg ggaacttcac gctgggacaa gcagcccatc aacgccatg gttcaggctg atccaggaga tgtcacag ccacaggacc tggaaaacac tcttgggtgt gtcttgggga tttggtgac acaagaccaa ggaaggaca gaatgagaa aggcctgggg cagaagagcc caactcttc tcatagctga cctcactct cctgcttgg cctcctggct ctttctccc cttccccca gcatggcagg atctcttct ttagcaagg atgaaagaga gaggtagta ggactgggac</p> | Homo sapiens |

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|-----|------|----------------------------|-------------|---|--------------|
| 166 | 3080 | Melatonin Receptor type 1b | NP_005950.1 | <p>ttgttaacta caagggcctc aggtggggca ggtgcagagg gc MSENGSFANC CEAGGWAVRP GWSGAGSARP SRTPRPFWA PALSAVLIVT TAVDVVGNLL P VILSVLRNRK LRNAGNLFV SLALADLVVA FYPYPLIIVA IFYDGWALGE EHCKASAFVM GLSVIGSVFN ITAIAINRYC YICHSMAYHR IYRWHTPLH ICLIWLTWV ALLNFFVGS LEYDPRIYSC TFIQTASTQY TAAVVIHFL LPIAVVSFCY LRIWVVLQA RRKARPE SRL CLKPSDLRSE LTMFVVFVIF AICWAPLNCI GLAVAINPQE MAPQIEGLF VTSYLLAYFN SCINAIVYGL LNQNFREYK RILLALMNP RHC IQDASKGS HAEGQSPAP PIIGVQH QAD AL</p> | Homo sapiens |
| 167 | 3081 | Melatonin-Related Receptor | NM_004224 | <p>tggttgctgt ctggacctgg ctgctgatcc tgagcctgct gggagatctt aacgatcccc A aggagcaaca tggggcccac cctagcgggt cccaccccct atggctgtat tggctgtaag ctaccccagc cagaataccc accggctcta atcatcttta tgtctgcgc gatggttattc accatcgctg tagacctaat cggcaactcc atggtcatct tggctgtgac gaagaacaaag aagctccgga attctggcaa catcttcgtg gtcagtctct ctgtggccga tatgctggtg gccatctacc catacccttt gatctgcat gccatgtcca ttgggggctg ggaatctgagc cagttacagt gccagatggt cgggttcac acagggtcga gtgtggtcgg ctccatcttc aacatcgtgg caatcgctat caaccgttac tgcctacatct gccacagcct ccagtacgaa cggatcttca gtgtgcgcaa tactgctac tacttggtca tcaactggat catgaccgtc ctggctgtcc tgcccacacat gtacattggc accatcgagt agcatcctcg cactacacc tgcattctca actatctgaa caacctgtc tteactgtta ccatcgtctg catccacttc gtcctccctc tcctcatcgt gggttctgc taagtggaga tctggaccaa agtgcctggcg gcccgtagcc ctgcagggca gaatcctgac aaccaacttg ctgaggttctg caattttcta accatggttg tgatctcct cctcttgca gtgtgctggt gccctatcaa cgtgctcact gtcttggtgg ctgtcagctc gaagagatg gcaggcaaga tcccacactg gctttatctt gcagcctact tcatagccta cttcaacagc tgcctcaacg ctgtgateta cgggctcctc aatgagaatt tccgaagaga atactggacc atcttccatg ctatgcggca cctatcata ttcttccctg gcctcatcag tgatatctgt gagatgcagg aggcccgtag cctggcccg gcccgtagcc atgctgcgca ccaagctcgt gaacaagacc gtgcccattg ctgtcctgct gtggaggaaa ccccgatgaa tgtccggaat gtccattac ctggtgatgc tgcagctggc caccgcgacc gtgcctctgg caacctaaag ccccatcca gatcctctc tgcctatcgc aatctgctt ctaccaccca caagtctgtc tttagccact ccaaggctgc ctctggtcac ctcaagcctg tctctggcca ctcaagcct gctctggtc acccaagtc tgcactgtc taccctaagc ctgctctgt ccatctcaag ggtgactctg tccatttcaa ggtgactct gtccatttca agcctgactc tgttcatttc aagcctgctt ccagcaacc ccagcccatc actggccacc atgtctctgc tggcagccac tccaagtctg ccttcagtgc tgcaccagc caccctaaac ccataagcc agctaccagc ctgctgagc ccaccactgc tgactatccc aagcctgcca ctaccagcca cctaagccc gatgtgctg acaacctga gctctctgcc tcccattgcc ccagatccc tgccattgcc caccctgtgt ctgacgacag tgacctcct gagtggcct ctagccctgc cgttgggccc accaagcctg ctgccagca gctggagctc gacaccatcg ctgaccttcc tgacctact gtagtacta ccagtaacca tgattaccat gatgtcgtgg ttgttgatgt tgaagatgat cctgatgaaa tggctgtgtg aaaaatgctc tcgtaggtgg ccaggcagt</p> | Homo sapiens |

| | | | | | |
|-----|------|---|-------------|---|-----------------|
| 168 | 3081 | Melatonin- Related Receptor | NP_004215.1 | MGPTLAVPTP YGICGCKLPQ PEYPPALIIF MFCAMVTIV VDLIGNSMVI LAVTKNKKLR P NSGNIFVSL SVADMLVAY PYPLMLHMS IGGWDLSQLQ QMVGFTTGL SVGSIFNIV AIAINRYCI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMYIGTIE YDPRTYTCLF NYLNNPVFTV TIVCIHEFLP LLIVGFCYVR IWKVLAARD PAGQNPNDQL AEVRNFTLME VIFLLFAVCW CPINVLTVLV AVSPKEMAGK IPNWLILAAY FIAYFNSCLN AVIYGLLEN FRREYWTIFH AMRHPPIIFP GLISDIREMQ EARTLARARA HARDQAREQD RAHACPAVEE TPMNVNRVPL PGDAAAGHPD RASGHPKPHS RSSSAAYRKA SHHKSVFESH SKAASGHLKP VSGHSPASG HPKSATVYPK PASVHFKGDS VHFKGDSVHF KPDSVHFKPA SSNPKPITGH HVSAGSHSKS AFSAAATSHPK PIKPATSHAE PTTADYPPKA TTSHPKPAAA DNPELSASHC PEIPAIAHPV SDDSDLPESA SSPAAGPTKP AASQLESDTI ADLPDPTVVT TSTNDYHDVV VVDVEDDPE MAV | Homo sapiens |
| 169 | 3093 | Metabotropic Glutamate Receptor 1 | NM_000838 | gaattccctt acaaacgcct ccagcttgta gagcggtgcg tggaggacc acc agaggaggag A acgaaggga aggaggcgtt ggtggaggag gcaaggcct tggacgacca ttgttgcca ggggcaccac tccgggagag gcggcgctgg gcgtcttggg ggtgcgcgc gggagcctgc agcgggacca gcgtgggaac gcgctggca gcgtgtggac ctcgtcctca ccaccatggt cgggctcctt ttgtttttt tcccagcgt ctttttggag gtgtcccttc tcccagaag ccccggcagg aaagtgttc tggcaggagc gtcgtctcag cgtcgtgtgg ccagaaatgga cggagatgtc atcattggag cctcttctc agtccatcac cagcctccg ccgagaaagt gcccagagg aagtgtggg agatcaggga gcagtatggc atccagagg tggaggccat gttccacacg ttggataaga tcaacgcgga cccgtctc ctcgccaaca tcacctggg cagtgagatc cgggactcct gctggcactc ttcgctggct cgggaacaga gcattgagtt cattagggac tctctgatt ccattcgaga ttgagaaggat gggatcaacc ggtgtctgcc tgacggccag tccctccccc caggcaggac taagaagccc attgcgggag tgatcggctc cggctccagc tctgtagcca ttcaagtga gaacctgtc cagctctctg acatcccca gatcgcttat tcagccacaa gcacgcacct gactgacaaa actttgtaca aatacttct gaggtgtgtc ccttctgaca ctttgaggc aagggccatg cttgacatag tcaaacgtta caattggacc tatgtctctg cagtcacac caggaggaat tatggggaga gcggaatgga cgctttcaaa gagctggctg cccaggaaag cctctgtatc gccattctg acaaaatcta cagcaacgct ggggagaaga gctttgaccg actcttgcg aaactccgag agaggcttc caaggctaga gtgtgtgtct gcttctgtga aggcagatgaca gtgcgaggac tcttgagcgc catgcggcgc cttggcgtcg tggcgagtt ctcactcat ggaagtgat gatgggcaga cagagatgaa gtcattgaa gttatgaggt ggaagccaac gggggaatca cgataaagct gcagtctcca gaggtcaggt catttgatga ttatttctg aaactgaggc tggacactaa cacagggaat cctgtgtcc ctgagttctg gcaacatcgg ttcagtgcc gccttccagg acaccttctg gaaaatccca actttaaacg acttgaca ggaatgaaa gcttagaaga aaactatgtc caggacagta agatggggtt tgtcatcaat gccatctatg ccatggcaca tgggctgcag aacatgcacc atgccctctg cctggcccat gtggcctct gcgatgccat gaagccatc gacggcagca agctgctgga cttcctcatc aagtcctcat tcatggaggt atctggagag gaggtgtggt ttgatgagaa aggagacgct cctggaaaggt atgatatac gaatctgcag tacactgaag ctaatcgcta tgactatgtg cacgttggaa cctggcagta aggagtgctg aacattgatg attacaaaat ccagatgaac aagatggag tgggtcggtc | Homo sapiens |

tgtgtgcagt ggccttgct taaagggcca gattaaggtt atacggaaag gagaagtgg
ctgctgctgg atttgacgg cctgcaaga gaataaatat gtgcaagatg agttcacctg
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cctttgtag attgactgt gtttggcca agcgggcttt ccattgacct tcagttaaa
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taagatgata tcaagttggt taaagacttt tgggtgaacac gttcattcaa ctgtgatcac
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gagggcgaa actctcacc ttgatgtatg ttcgatatac agtgttcag cttctgttaa
atgtgtttc cttcggttg ttaactgcctt ttgtcaata atctgacaa tgcgtatata
taaatattt ctattatt

Homo

3093 Metabotropic NP_000829.1 MVGLLFFFP AIFLEVSLLP RSPGRKLLA GASSQRSVAR MDGDIIGAL FSVHQPPAE P

170

| Glutamate Receptor 1 | 3094 | Metabotropic NM_000839 Glutamate Receptor 2 | 171 | sapiens | Homo sapiens |
|-------------------------|------|---|-----|---|-----------------|
| | | | | KVPERKCGEI REQYGIQORVE AMFHTLDKIN ADPVLLPNIT LGSEIRDSCW HSSVALEQSI EFIRDSLISI RDEKDGINRC LPDQSLPPG RTKKPIAGVI GPGSSSVAIQ VQNLQLFEDI PQIAYSATSI DLSDKTLKY FLRVVPSDTL QARMLDIVK RYNWTVYSAV HTEGNYGESG MDAFKELAAQ EGLCIAHSDK IYSNAGEKSF DRLRLKDER LPKARVVVCF CEGMTVRGLL SAMRRLGWVG EESLIGSDGW ADREDEVIEGY EVEANGGITI KLQSPVRSF DDYFLKLRLD TNTRNPWFE FWQHRFQRL PGHLLNPNF KRICTGNESL EENYVQDSKM GFVINAIYAM AHGLQNMHHA LCPGHVGLCD AMKPIDGSKL LDFLIKSFI GVSGEVWFED EKDAPGRYD IMNLQYTEAN RYDYVHVGTW HEGVLNIDY KIQMNKSGV RSVCSPECLK GQIKVIRKE VSCCWICTAG KENEYVQDEF TCKACDLGWW FNADLTGCEP IPVRYLEWSN IESIIATAFS CLGILVTLFV TLIFVLYRDT PVKSSREL CYIILAGIFL GYVCPFTLIA KPTTTSVLIQ RLIVGLSSAM CYSALVTKTN RIARILAGSK KKICTRKRPF MSAWAQVIA SILISVQLTL VVTLIIMEPP MPILSYPSIK EYILICNTSN LGVAPLGN GLLIMSTY AFKTRNVNPA FNEAKYIAFT MYTTCIIWLA FVPIYFGSNY KIITCFEAVS LSVTVLGCMT FPKMYIIIA KPERNVRSF TTSDVVRMHV GDGKLPCRSN TFLNIFRKK AGAGNANSNG KSVSWSEPGG GOVPKGQHMW HRLSVHVKTN ETACNQTA VI KPLTKSYQGS GKSLTFSDTS TKTLYNVEEE EDAQPIRFSF PGSPSMVVRH RVPSAATTPP LPPHLTAEP PLFLAEPAIP KGLPPPLQOQ QQPPPOQKSL MDQLQGVSN FSTAIPDFA VLAGPGGFGN GLRSLYPPPP PQHLQMLPL QLSTFGEELV SPPADDDDD S ERFKLIQEV YEHREGE NTE EDELEEEED LQAASKLTPTD DSPALTPPSP FRDSVASGSS VPSPVSESV ICTPPNVSYA SVILRDYKQS SSTL ccatgggac gctgcttgct cctctggcac tctgctgct gctgggtgct gctgggtgag A gccagccaa gaaggctgct accctggagg gagacttggt gctgggtggg ctgttccag tgcaccagaa gggcgccca gcagaggact gtggtctgt caatgagcac cgtggcatcc agcgctgga ggcctgctt ttgactgg accgaccaa cactgctgc cactgctgc ctggcgtgc cctgggtgca cacatcctgc acagtgtc caaggacaca catgctg agcaggcact ggactttgt cgtgctcac tgcacctg gtgatgtcc cactgcatc actggtgta tctgccccga cggctcttat gcgacctat gctctacc agtggcaca cctctgagg ctatttcaga ttggcggttc ctacagtgt tctaccatc ccaagctgag tgacaagtcc cgtatgact tcccacagat tagctacgcc tctaccagt gctgactct tccaagcaca ggccatggct gagattctcc acttgccc cactgacct cctgactct gtgtccatg aggcctctga ggcgagacag gcttcttcaa ctggacctat ggtccatg cccgcaacat ctgtgtggcc acctcgaga gcataggcc cttgagcta gaggtcgtg cccgcaacat ctgtgtggcc acctcgaga aagtggccg tccatgagc cgcgcgccct ttgaggtgt ggtgcgagcc ctgctcgaga agccagtg cgcgtggct gctctgtca cccgttctga ggtgcccgg gagctgctg ctgccagcca cgcctcaat gccagcttca cctgggtggc cagtgtggt tggggggccc tggagagtgt ggtggcagg agtgggggg ctgctgagg tgctatcacc atcgagctgg cctctacc catcagtac ttgctctc acttcagag cctggacct tggacaaca gccggaacc ctggttccgt gaattctgg agcagaggtt ccgtgcagc ttccggcagc gagactggc agccactct ctccgggctg tgccttga acagagtcc aagatcatgt ttgtggtcaa tgcagtgtac gccatggccc atgcgtcca caaatgcac cgtgcccct gccccaacac caccggctc tgtgacgca tgcggcagc taacggggc cgccttaca aggactttgt gctcaacgct aagtttgatg cccctttg cccagctgac acccaaatg | |

| | | | | |
|-----|------|---|---|--------------|
| 172 | 3094 | Metabotropic NP_000830.1 Glutamate Receptor 2 | aggctccgctt tgaccgcttt ggtgatggtta ttggccgcta caacatcttc acctatctgc gtgcaggcag tggcgcttat cgctaccaga aggtgggcta ctgggcagaa ggcttgactc tggacaccag cctcatocca tgggectcac cgtcagccgg cccctggcc gcctctcgtc gcagtgagcc ctgcctccag aatgaggtga agagtgtgca gccgggcgaa gtctgctgct ggctctgcat tccgtgccag ccctatgagt accgattgga cgaattcact tgcgctgatt gtggcctggg ctactggccc aatgccagcc tgactggctg cttcgaaactg cccagaggat acatccgctg gggcgatgcc tgggctgttg gacctgtcac catcgccctgc ctgggtgcc tggccacctt gtttgtgctg ggtgtctttg tggcgacaa tgccacacca tgggtcaagg cctcaggctg ggagctctgc tacatcctgc tgggtggtg cttcctctgc tactgcatga ccttcattct cattgccaag ccatccacgg cagtgtgtac cttacggcgt cttgggtttg gcactgctt ctctgtctgc tactcagccc tgtcaccaa gaccaaccg attgcacgca tcttcggtgg gggccgggag ggtgccagc ggccacgct catcagtcct gcctcacagg tgcccatctg cctggcactt atctcgggc agctgctcat cgtggtgcgc tggctggtg tggaggcacc gggcacaggc aaggagacag ccccgaggtg gcggaggtg gtgacactgc gttgcaacca ccgcatgca agtatgttg gctcgtggc ctacaatgtg ctctcctcgc cgctctgac gctttatgcc ttcaatactc gcaagtgcgc cgaatactc aacgaggcca agttcattgg cttcaccatg tacaccactt gcatcattg gctggcattg ttgccatct tctatgtcac ctccagtgac taccgggtac agaccaccac catgtgcgtg tcagtcagcc tcagcggtc cgtggtgctt ggctgctct ttgccccaa gctgcacatc atcctcttc agccgcagaa gaactggtt agccaccgg caccaccag ccgctttggc agtgcgtgctg ccagggccag ctccagcctt ggccaaagggt ctggctccca gttgtcccc actggttgca atggccgcta ggtggtggac tgcacacgt catcgcttg a MGSLLALLAL LPLWGAVAEG PAKKVLTEG DLVLGLGFPV HQKGGAEDC GPVNEHRGIQ P RLEAMLFALD RINRDPHLLP GVRGLAHILD SCSKDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSDVSIQ VANLLRLFQI PQISYASTSA KLSDKSRDY FARTVPPDFE QAKAMAEILR FFNWTYVSTE ASEGDYGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRALLQK PSARVAVLFT RSEDARELLA ASQRINASFT WVASDWGAL ESVVAGSEGA AEGAITIELA SYPISDEFASY FQSLDPWNNS RNPWFREFWE QRFRCSFRQR DCAAHSLRAV PFEQESKIME VVNNAVYAMAH ALHNMRHALC PNTRLCDAM RPNVGRRLYK DFVLNVKFDA PFRPADTHNE VRFDRFGDI GRNYFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLIPWASP SAGPLAASRC SEPCLQNEVK SQVPGVECCW LCIPCPYEV RLDEFACDC GLGYWPNASL TGCFLPQEY IRWGDAMAVG PVTIACLGAL ATLFVLGVFV RHNAFPVKA SGRELCYILL GGVFLCYCMT FIFIAPKPSA VCTLRRLGLG TAFSVCYSAL LTKTNRIARI FGGAREGAQR PRFISPASQV AICLALISGQ LLIVVAWLIV EAPGTGKETA PERREVVTLR CNHRDASMLG SLAYNVLLIA LCTLYAENR KCPENFNEAK FIGHTMYTTC IWLALLPIF YVTSSDVRVQ TTTMCSVSL SGSVWLGLCF APKLHIILFQ PQKNVVSHRA PTSRFGSAAA RASSSLGQGS GSQFVPTVCN GREVDSITS SL cttttgtctc ggaatgaggag gaccaacctt gagccagagc ccgggtgtcag gctcacggcc A gccgctgcca ccgcggtcag ctccaggtcc tgccaggagt tgctgggtgcg aggaattttg tgacaggctc tghtagtctg ttctctccct atttgaagga caggccaaag atccagtttg gaaatgagag aggactagca tgacacattg gctccacctt tgatatctcc cagaggtaca | Homo sapiens |
| 173 | 3095 | Metabotropic NM_000840 Glutamate Receptor 3 | aggctccgctt tgaccgcttt ggtgatggtta ttggccgcta caacatcttc acctatctgc gtgcaggcag tggcgcttat cgctaccaga aggtgggcta ctgggcagaa ggcttgactc tggacaccag cctcatocca tgggectcac cgtcagccgg cccctggcc gcctctcgtc gcagtgagcc ctgcctccag aatgaggtga agagtgtgca gccgggcgaa gtctgctgct ggctctgcat tccgtgccag ccctatgagt accgattgga cgaattcact tgcgctgatt gtggcctggg ctactggccc aatgccagcc tgactggctg cttcgaaactg cccagaggat acatccgctg gggcgatgcc tgggctgttg gacctgtcac catcgccctgc ctgggtgcc tggccacctt gtttgtgctg ggtgtctttg tggcgacaa tgccacacca tgggtcaagg cctcaggctg ggagctctgc tacatcctgc tgggtggtg cttcctctgc tactgcatga ccttcattct cattgccaag ccatccacgg cagtgtgtac cttacggcgt cttgggtttg gcactgctt ctctgtctgc tactcagccc tgtcaccaa gaccaaccg attgcacgca tcttcggtgg gggccgggag ggtgccagc ggccacgct catcagtcct gcctcacagg tgcccatctg cctggcactt atctcgggc agctgctcat cgtggtgcgc tggctggtg tggaggcacc gggcacaggc aaggagacag ccccgaggtg gcggaggtg gtgacactgc gttgcaacca ccgcatgca agtatgttg gctcgtggc ctacaatgtg ctctcctcgc cgctctgac gctttatgcc ttcaatactc gcaagtgcgc cgaatactc aacgaggcca agttcattgg cttcaccatg tacaccactt gcatcattg gctggcattg ttgccatct tctatgtcac ctccagtgac taccgggtac agaccaccac catgtgcgtg tcagtcagcc tcagcggtc cgtggtgctt ggctgctct ttgccccaa gctgcacatc atcctcttc agccgcagaa gaactggtt agccaccgg caccaccag ccgctttggc agtgcgtgctg ccagggccag ctccagcctt ggccaaagggt ctggctccca gttgtcccc actggttgca atggccgcta ggtggtggac tgcacacgt catcgcttg a MGSLLALLAL LPLWGAVAEG PAKKVLTEG DLVLGLGFPV HQKGGAEDC GPVNEHRGIQ P RLEAMLFALD RINRDPHLLP GVRGLAHILD SCSKDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSDVSIQ VANLLRLFQI PQISYASTSA KLSDKSRDY FARTVPPDFE QAKAMAEILR FFNWTYVSTE ASEGDYGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRALLQK PSARVAVLFT RSEDARELLA ASQRINASFT WVASDWGAL ESVVAGSEGA AEGAITIELA SYPISDEFASY FQSLDPWNNS RNPWFREFWE QRFRCSFRQR DCAAHSLRAV PFEQESKIME VVNNAVYAMAH ALHNMRHALC PNTRLCDAM RPNVGRRLYK DFVLNVKFDA PFRPADTHNE VRFDRFGDI GRNYFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLIPWASP SAGPLAASRC SEPCLQNEVK SQVPGVECCW LCIPCPYEV RLDEFACDC GLGYWPNASL TGCFLPQEY IRWGDAMAVG PVTIACLGAL ATLFVLGVFV RHNAFPVKA SGRELCYILL GGVFLCYCMT FIFIAPKPSA VCTLRRLGLG TAFSVCYSAL LTKTNRIARI FGGAREGAQR PRFISPASQV AICLALISGQ LLIVVAWLIV EAPGTGKETA PERREVVTLR CNHRDASMLG SLAYNVLLIA LCTLYAENR KCPENFNEAK FIGHTMYTTC IWLALLPIF YVTSSDVRVQ TTTMCSVSL SGSVWLGLCF APKLHIILFQ PQKNVVSHRA PTSRFGSAAA RASSSLGQGS GSQFVPTVCN GREVDSITS SL cttttgtctc ggaatgaggag gaccaacctt gagccagagc ccgggtgtcag gctcacggcc A gccgctgcca ccgcggtcag ctccaggtcc tgccaggagt tgctgggtgcg aggaattttg tgacaggctc tghtagtctg ttctctccct atttgaagga caggccaaag atccagtttg gaaatgagag aggactagca tgacacattg gctccacctt tgatatctcc cagaggtaca | Homo sapiens |

gaaacaggat tcataagat gttgacaaga ctgaagttc ttaccttagc ttgtttttc
aagggtatt tactcttt aggggacct aactttctaa ggagagagat taaaatagaa
ggtgacctg ttttagggg cctgttctt attaacgaaa aaggccactg aactgaagaa
tgtgggggaa tcaatgaaga ccgagggtt caagccctg agccatgtt gtttgcctt
gatgaatca aaaaagatga ttacttgcta ccaggagtga agttgggtgt tcacattttg
gatacatgtt caaggatca ctatgcatt gagcaatcac ttgagtttgt caggccatct
ttgacaaaag tggatgaagc tgaatatatg tgcctgatg gatcctatgc cattcaagaa
aacatccac ttctcattg aggggtcatt gttggctctt atagcagtgt ttccatacag
gtggcaaac ttgtgggt cttccagatc cctcagatca gctacgcac caccagcgc
aaactcagt ataagtcgct ctatgattac ttbgccagga ccgtgcccc cgaactttac
caggccaaa ccatggctga gatctgcgc ttcttcaact ggacctagt gtccacagta
gcctccgagg gtgattacg ggagacagg atcgaggcct tcgagcagga agcccgcctg
cgcaacatct gcctgctac ggcgagagaag gtgggcccgt ccaacatccg caagtcctac
gacagcgtga tccgagaact gtgcagaag cccaacgcgc gcgtcgtgtt cctcttcacg
cgagcgacg actgcggga gctcattgca gccgccagcc gcgccaatgc ctcttcacc
tgggtggcca gcacgggtg gggcgcgag gagagcatca tcaagggcag cgagcatgtg
gcctacggcg ccatcacctt ggagctggc tccagacctt tccgccagt gcaccgctac
ttccagagcc tcaaccctc caacaaccac cgcaacctt ggttccggga ctctgggag
caaaagttc agtgcagcct ccagaacaaa ccgaaccaca ggccgctctg cgacaagcac
ctggccatcg acagcagcaa ctacgagcaa ggtccaaaga tcatgtttgt ggtgaacgag
gtgatgcca tggccacgc ttgacacaaa atgcagcga cctctgtcc caacactacc
aagctttgtg atgctatgaa gatcctggat gggaaagat tgtacaagga ttactgtctg
aaaatcaact tcacggctcc attcaaccca aactgttca atttccaaa agtcaagttt
gacactttg gagatggaat gggcgctac aactgttca atttccaaa agtcaagttt
aagtatcct actgaaagt tggctactg gcagaaacct tatcgctaga tgtcaactct
atccactggt ccggaactc agtccccact tcccagtgca gcgacctg tgccccaat
gaaatgaaga atatgcaacc aggggatgtc tgcgtgga ttigtatccc ctgtgaacc
tacgaatacc tggctgatga gtttacctg aggactaga tcagggtgga agacgctgg
gcagacctaa ctggatgcta tgaccttct gaggactaca tcagggtgga agacgctgg
gccattggcc cagtcacct tgcctgtctg ggttttatgt gtacatgcat ggttgaact
gtttttatca agcaacaaa cacaccttg gtcaaaagct cgggccgaga actctgctac
atctattgt ttgggggttg cctgtcact tgcattgac ttcttctac tgcaagcca
tcaccagtca tctgtgcat gcgccactc gggctggga gttccttcg tatctgttac
tcagccctgc tgaccaagac aaactgcatt gcccgcatc tcgatgggt caagaaaggc
gctcagagg caaaattcat cagccccagt tctacgttt tcatctgct ggtctgac
ctgggtgcaa ttgtgatgt gtctgtgtg ctcatcctg agggccagg caccagagg
tatcccttg cagagaagcg ggaacagtc atcctaaaat gcaatgtcaa agattccagc
atgttgatct ctcttacct cgtgtgac ctggtgatc tatgcactgt gtacgcctc
aaaacgcgga agtgccca aaattcaac gaagctaaat tcatagttt taccatgac
accagtgca tcatctggtt ggccttcct cctatatatt atgtgacatc aagtactac
agagtgcaga cgacaacct tgcactctc gtgcgctcga gtggctttgt ggtctggg

| | | | | |
|-----|------|---|---|-----------------|
| 174 | 3095 | Metabotropic NP_000831.1 Glutamate Receptor 3 | <p>tggttggttg caccacaagt tcacatcatc ctgtttcaac ccagaagaa tggtgtcaca cacagactgc acctcaacag gttcagtgct agtggactg ggaccacata ctctcagtc tctgcaagca cgtatgtgcc aacgtgtgc aatggcgagg aagtcctcga ctccaccacc tcattctgtg gatttgaat tatgttgatg tgcagttcag ttcttggttt tttagactgt tagacaaaag tgctcacgtg cagctccaga atatggaac agagcaaaag aacaacccta gtaccttttt ttagaacag tacgataaat tattttgag gactgtatat agtgatgtgc tagaactttc taggttagt ctagtgtccc tattattaac aattccccca gaacatggaa ataaccattg tttacagagc tgagcatggg tgacagggtc tgacatggct agctactaa aaaaacaaaa aaaaaaacaa aaaaaaaa aaaaagaaa aaaaataaaa tacgggtggca atattatga accttttttc ctatgaagtt ttttgtaggt ccttggtgta actaattag gatgagtttc tatgttgat attaaagtta cattatgtgt aacagattga ttttctcagc aaaaaataaa aagcatctgt attaatgtaa agatactgag aataaaacct tcaagggtttt</p> | Homo sapiens |
| 175 | 3096 | Metabotropic NM_000841 Glutamate Receptor 4 | <p>MLTRLQVTL ALFSKGFLS LGDHNFLRRE IKIEGDLVLG GLFPINERGT GTEECGRINE P DRGIQRLEAM LFAIDEINKD DYLLPGVKLG VHILDTCSRDL TYALEQSLEF VRASLTQVDE AEYMC PDGSY AIQENIPLLI AGVIGGSYSS VSIQVANLLR LFQIPQISYA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILRFENWTY VSTVASEGDY GETGIEAFEQ EARLRNICIA TAEKVGRSNI RKSYSVIRE LLQKNARVV VLFMRSDSR ELIAAASRAN ASFTWVSDG WGAQESIIGK SEHVAYGALT LELASQPVRO FDRYFQSLNP YNNHRNPWER DFWEQKFOCS LQKNRHRV CDKHLAIDSS NYEQESKIME VNAVYANAH ALHKMQRTLC PNTTKLCDAM KILDGKKLYK DYLLKINETA PFNPNKADS IVKFTDFGD MGRYNVFNFO NVGKYSYK VGHWAETLSL DVNSIHWSRN SVPTSQSDP CAPNEMKNQ PGDVCCWICI PCEPYEYLAD EFTCMDCGSG QWPTADLTGC YDLPEDYIRW EDWAIGPVT IACLGFMCTC MVVTVFIKHN NTPLVKASGR ELCYILLFGV GLSYCMTFFF IAKSPFVICA LRRGLGSSF AICYSALLTK TNCIARIFDG VNKAQRPKF ISPSQVFC LGLILVQIVM VSWLILEAP GTRRYTLAEK RETVILKCNV KDSSMLISLT YDVLVILCT VYAFKTRKCP ENFNEAKFIG FTMVTTCTIIV LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VVLGCLFAPK VHILFQPOK NVVTHRLHLN RFSVSGTGTT YSQSSASTYV PTVCNGREVL DSTTSSL</p> | Homo sapiens |
| 175 | 3096 | Metabotropic NM_000841 Glutamate Receptor 4 | <p>ccagagtga agagggtgg agaggtagc agcatgggt agcggttgg ctgcccctcag A tccccctgct gctgaagctg ccttgcccat gcccaccag gccgtggggc caggggcctg ccagggttag gagggtgct cccgttcctg ggtctctagg gatttccgag atgcctggga agagaggctt gggctggtg tgggcccgcg tgccccttg cctgtctctc agcctttacg gccccctgat gccttctcc ctgggaaagc ccaaaaggcca cctcacatg aattccatcc gcatagatgg ggacatcaca ctgggaggcc tgttcccgtt gcatggccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggctggag gccatgctgt tcgcccctgga tgcatacaac aacgaccgg accgtgctg taacatcag ctgggccc gcatttctga cacctgtcc agggacacc atgcccctga cagtcgctg acctttgtgc aggcgctcat cgagaaggat ggcacagagg tccgctgtgg cagtggcggc ccaccatca tcaccaagcc tgaacgtgtg gtgggtgtca tcggtgtctc agggagctcg gtctccatca tgggtggccaa catccttcgc ctcttcaaga taccacagat cagctacgcc tccacagcgc cagacctgag tgacaacagc cgctacgact tcttctccc cgtgggtgcc tcggacacgt accaggccca ggccatgggt gacatcgtcc gtgcccctcaa gtggaactat gtgtccacag</p> | Homo sapiens |

tggcctcggg gggcagctat ggtgagagcg gtgtggaggc cttcatccag aagtcocgtg
aggaagggg cgtgtgcatc gccagtcgg tgaagatacc acgggagccc aaggcaggcg
agttcgacaa gatcatccgc cgcctcctgg agactccga cgcagggca gtcatactct
ttgccaaacga ggaatgacac agcgtgtgct tggaggcagc acgaagggcc accagacag
gccatttctt ctggatgggc tctgacagct ggggtcccaa gattgcacct gtgctgcacc
tggaggagggt ggcgtagggt gctgtcacga tccctcccaa gaggatgtcc gtacgagctt
tcgaccgcta cttctccagc cgcacgctgg acaacaacgc gcgcaacatc tggtttgccg
agttctggga ggacaacttc cactgcaagc tgagccgcca cgcctcaag aaggcagcc
acgtcaagaa gtgaccacac cgtgagcgaa ttgggcagga ttacgttat gagcaggag
ggaaggtgca gtttgtgac gatgccgtgt acgccatggg ccacgcgtg cagccatgc
accgtgacct gtgtcccgcc cgcgtggggc tctgcccgc catggacct gtatgtgca
cccagctgct taagtacatc cgaacgtca acttctcagg catcgcagg aacctgtga
ccttcaatga gaatggagat gcgctgggc gctatgacat ctaccaatcc cagctggca
acgatctcgc cgagtacaag gtcatggct cctggactga ccacctgcac cttagaatag
agcggatgca ctggccggg agcgggcagc agtgccccc ctcctatcgc agcctgcct
gccaaccggg tgagcgggaag aagacagtga aggtcgtggt ttgctgtgg cactgcgagc
cttgacacag gtaccagtac caggtggacc gggcctgccc gggcctatcc catcatcaag cttgagtggg
tgggccccc agagaaccgc acgggtgct cccctctcc tggcgtggt gggcctcgt gccacgtgtg
gctcgccctg ggcgtgtgt cccctctcc tggcgtggt gggcctcgt gccacgtgtg
tcgtggtgat cacctttgt cgtacaacg acagcccat cgtcaaggcc tcgggocgtg
aactgagcta cgtgtgctg caggcatct tcctgtgta tgccaccacc ttccctcatga
tcgtgagcc cgacctggc acctgctgc tgcgcgaat ctctctggga ctaggatga
gcatacagta tgcagccctg ctacacaaga ccaacgcct ctaccgcac ttcgagcagg
gcaagcgtc ggtcagtgcc ccacgcttca tcagccccc ctacagctg gccatcacct
tcagcctcat ctgcctgag ctgtgggca tctgtgtgtg gttgtgtgtg gacctctcc
actcgtgtgt ggaattccag gaccagcga cactgaccc ccgttcgccc aggggtgtgc
tcaagtga catctcggac ctgtcgtca tctgctgct gggctacagc atgctgtca
tggtcacgtg caccgtgtat gccatcaaga cagcggcgt gccgagacc ttcaatgagg
ccaagcccat tggcttacc atgtacaca cttgcatcgt ctggctggcc ttcatcccca
tcttctttgg cactcgcag tcggccgaca agctgtacat ccagacgacg acgtgacgg
tctcgtgtgag tctgagcgc tcggtgtccc tgggaatgct ctacatgccc aaagtctaca
tcatcctctt ccaccggag cagaacgtgc ccaagcgcaa gcgagcctc aaagcgtcg
ttacggcggc caccatgtcc acaagtcca cgcagaagg gcaattccgg ccaacggag
aggccaagtc tgagctctgc gagaaccttg aggccccagc gctggccacc aaacagactt
acgtcaccta caccacccat gcaatctagc gactgcatgg agctgagcag caggaggagg
agcgtgacc ctgtggaagg tgcgtcgggc caggccaca ccaagggcc cagctgtctt
gcctgcccgt gggaaccac ggacgtggct tgggtgtgag gtagcagag cccccagcca
tcaactgctg cagcctgggc aaacgggtg agcaacagga ggacgagggg ccggggcggt
gccaggctac cacaagaacc tgcgtcttgg acctgccc ctcocggccc caaacacag
gggctcaggt cgtgtgggc ccagtgtag atctctcct cctctgtct ctgtctgtgc
tgttggcgac ccctctgtct gtctccagcc ctgtcttctt gtctcttat ctctttgtt

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|-----|------|---|---|--|--|
| 176 | 3096 | Metabotropic NP_000832.1 Glutamate Receptor 4 | MPGKRGLGW WARLPCLLL GSEKPCGEL KKEKGIHRL TFVQALIEKD GTEVRCGSGG STAPDLSDNS RYDFFSRVVP KSREDGGVCI AQSVKIPREP NQTGHFFWVG SDSWGSKIAP WFAEFWEDNF HCKLSRHALK HAMHRDLCPG RVGLCFRMDP QLRNDSEYK VIGSWTDHLH HCEPCTGYQY QVDRYCTKTC ATLFVWITFV RYNDTPIVKA LGMSISYAAL LTKTNRIYRI DPSSHVVDFO DQRTLDPRFA FNEAKPIGFT MYTTCIVWLA KVYIILFHEP QNVPKRKRS KQTYVTYNH AI | ctcttagaaa atcgcttgtt gcttgaactc aagatgtccg acatcattat agaggaagtg ataccctgga agataaggga gagattccct cctcttcctt tagccattca caaccagcat cagatgctca tatcagccgt tgacagcgaa | atcgcttgtt atcgct |
|-----|------|---|---|--|--|

aatgcagggg agcagagcctt tgataagctg ctgaagaagc tcacagtcac cttgccccag
gccccgggtg tgccctgctt ctgtgagggc atgacagtgga gaggtctgct gatggccatg
aggcgccctg gtctagcggg agaatttctg cttctgggca gtgatggctg ggctgacagg
tatgatgtga cagatggata tcagcgagaa gctgttggtg gcatcacaat caagctccaa
tctcccgatg tcaagtgggt tgatgattat tatctgaagc tccggccaga acaaaaccac
cgaaacccct ggtttcaaga attttggcag catcgttttc agtgcgcagt ggaagggttt
ccacaggaga acagcaata caacaagact tgcaatagtt ctctgactct gaaaacacat
catgttcagg attccaaaat tggatttgtg atcaacgcca tctatcogat ggcctatggg
ctccacaaca tgcagatgtc cctctgcca gctatgcaag gactctgtga tgcctatgaag
ccaattgat gacggaaact tttggagctc ctgatgaaaa ccaattttac tggggtttct
ggagatacga tcctattcga tgagaatgga gactctccag gaaggtatga aataatgaat
ttcaaggaaa tgggaaaaaga ttactttgat tatatacaag ttggaagtgt ggacaatgga
gaattaaaaa tggatgatga tgaagtatgg tccaaagaaa gcaacatcat cagatctgtg
tgcagtgaac catgtgagaa aggccagatc aaggtgatcc gaaagggaga agtcagctgt
tgttggacct gtacacctg taaggagaat gagtatgtct ttgatgtgta cacatgcaag
gcatggcaac tggggtcttg gccactgat gatctcacag gttgtgactt gatcccaatg
cagtatcttc gatgggttga cctgaaacc attgcagctg tgggttttgc ctgcccgtgc
ctctggcca cctgtttgt tactgtagtc ttcatattt accgtgatac accagtagtc
aagtcctcaa gcagggaact ctgctacatt atccttgctg gcatctgctt gggctactta
tgtaccttct gcctcattgc gaagcccaaa cagatttact gctaccttca gagaattggc
attggtctct cccagccat gagtactca gccctgttaa caaagacca cctgattgca
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tgtgcccagc tagtgattgc ttctattctc atgtgactcc agttgggcat cactgttgc
ctctttataa tggagcctcc tgacataatg catgactacc caagcattcg agaagtctac
ctgatctgta acaccacca cctaggagtt gtcactccac ttggatataa tggattgttg
attttgagct gcaccttcta tgcgttcaag accagaatg ttccagctaa cttcaacgag
gccaaagtata tcgccttcac aatgtacag acctgcatta tatggctagc ttttggcca
atctactttg gcagcaacta caaatcacc acctgtgtt tctcgttcag cctcagtgc
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179

3098

Metabotropic NM_000843
Glutamate
Receptor 6

A

Homo
sapiens

cggaggcccc ggcaggccgg ctgagctaac tccccagagc caaagtggaa ggcgcgcccc
gagcgccttc tccccaggac cccggtgtcc ctcgccggc cccgagcccc cgctctctt
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acagttttac attcatgtgg ttttctccac tgtgaactct gtgattcaga atcagaagca
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| | | | | |
|------|------|---|---|-----------------|
| 180 | 3098 | Metabotropic NP_000834.1 Glutamate Receptor 6 | <p> tgggcctctc tggcaggaaac tctgatgcac cgcgaggccc atgtactoct gtggctttct cacattcggt ctacttgcaag ggtatctcca cagcatgcac cattctgggt acagggggac atcctctggt actgaagatg ttgtcatatt tagtaccttc acaaggttct tctcctcca gaattttctg atgtacacaa ataactgact tccacaagag ggcctttcca cactcgtgtg gtgcatacag ttctgcctg tgatcatttc tttatgttat tttttttt cttcgagata gggtcttgct caatttctta ggctggagtg cagtggaacg atcatagctc actgaagttt cgacctgggc tcaagcaatc ctccgcctc agcctctga gtgctgggtg cgcacgacca taccagcta atgttttatt ttttgtagag acgaggtctc actatgtgc ccagctggt ctcgaacttc tgagctcgag cgatcctct cctccacct cccaaagtgt tcggattaca aacgtgagcc atcgacacta gcctcttga tcatctctgt ggtgttcagt ggggttgac agctccctaa agattttctt gttttttg agcatgggt ttgaattctt tgaggtccaa tttatttga cccctgaata agttttgtg ggttttctt tatgtgtga attatatagg cattcttcca gtgtggttct tcttatgtcg agtgagagct gacctgacc gaagtgtctc ccattgttg ccttgaatt atctgtatga attatatgtt ccagtgaata tggagtctg gggtggaggc ttatccatg ttacacaa taaaattgca gtgttctct ctgggatgag agctctaaag cagagtaaga ttacgttctg atgtgaagct taaccacta tttataaggt ctcacctgtg gtccactgtg ttgagacttc tacagaagag cttctgtata gtaaccattt tcttaggtg tctcactgt gtgaatcttc tgacacattt attatagctt tgtccattt cttatcctt ttgctcttta gaaattccc tttatttat tacattcatt gcttactgta aagagtccag gtaactgact ttaattcaag ttacttctg ttaataaat ttaactttc cc </p> | Homo sapiens |
| 181. | 3099 | Metabotropic NM_000844 Glutamate Receptor 7 | <p> KKEQGVHRL EAMLYALDRVN ADPELLGVR LGARLDTCS RDTVALEQAL SFVQALIRGR GDGDEGVRC PGGVPPLRPA PPERVAVVG ASASSVSIMV ANVRLFAIP QISYASTAPE LSDSTRYDF SRVPPDSYQ AQAMVDIVRA LGWNVSTLA SEGNYGESV EAFVQISREA GGVCIAQSIK IPREPKEGFE SKVIRLMET PNARGIIFA NEDDIRVLE AARQANLTGH FLWVGSDSWG AKTSPILSLE DVAVGAITIL PKRASIDGFD QYFTRSLN NRRNIWFAEF WEENFNCKLT SSGTQDDST RKCTGEERIG RDSYEQEGK VQFVIDAVYA IAHALHSMHQ ALCPGHTGLC PAMEPTDGRM LLOYIRAVRF NGSGTTPVMF NENGDAAGRY DIFQYQATNG SASSGGYQAV GQWAEILRLD VEALQWSGDP HEVPSLCSL PCGPERKKM VKGVPCWNC EACDGYRFQV DEFTCEACPG DMRPTNHTG CRTPVVRSL WSSPWAAPPL LLAVLGIVAT TTVATFVRY NNTPIVRASG RELSVLLTG IFLIYAITFL MVAEPGAACV AARLFLGLG TTLSSYALLT KTNRIYRIFE QGKRSVTPPP FISTSQLV I TFSLSLQV GMTAWLGARP PHSVIDYEEQ RTVDPEQARG VLKCDMSDLS LIGLIGYSL LMVCTVYAI KARGVPETFN EAKPIGFTMY TTCIWLAFV PIFGTQAQA EKIIQTTL TVSLSLASV SLGMLYVPKT YVILFHPQN VQKRKSLKA TSTVAAPKG EDAEAHK gaattcccaa caccaggta attttgtat ttttagtaga gattgggttt caccatgttg A gccagatgg tctccatctc ttgacctcg gactcctcg gcttggtctc caaaagtgtc gggattacag gcatgagtca ccataccag ccaactgcag tcatcttat ggggcaaca cttggctgaa cccaggtttt ctaagatata aaacccatgg gcaacaccaa gcatcttaat ggaataggca cctgggtgac tccaggcatt ctaataatag agacacctg gcgaactcag </p> | Homo sapiens |

acgggtcgccc ctccccggat tccccaccc tccgtgcctg caggagcccc tgggctttcc
cggaggagct cgccctgaag ggcccgacc tcggcgagcc caccaccgtt cctccacgag
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| | | | | | |
|-----|---|-------------|------|--|-----------------|
| 182 | Metabotropic Glutamate Receptor 7 | NP_000835.1 | 3099 | tactgtgtat gccatcaaga ctcgggggtgt acccgagaat ttaaacgaag ccaagcccat tggattcact atgtacacga catgtatagt atggcttgcc ttcattccaa tttttttgg caccgctcaa tcagcggaag agctctacat acaactacc acgcttacaa tctccatgaa cctaagtga tcagtggcgc tggggatgct atacatgcg aagtggtaca tcatcatatt ccaccctgaa ctcaatgtcc agaaacggaa gcgaagcttc aaggcggtag tcacagcagc caccatgtca tcgaggctgt cacacaacc cagtacaga cccaacggtg aggcaagac cgagctctgt gaaaacgtag acccaaacg cctgctgca aaaaagaagt atgtcagtta taataacctg gttatctaac ctgttccatt ccattggaacc atggaggagg aagaccctca gttattttgt caccacact ggcataggac gaccagtgt agaggatcca acagctgctt aggagcttcc ccggccggga gaccagtgtt agaggatcca agcagaccaa acagctgctt tatgaaatat ccttacttta tctgggctta ataagtcact gacatcagca ctgccaactt ggctgcaatt gtggaccttc cctaccacaa ggagtggtga aactcaagtc ccgcccggc tctttagaat ggaccactga gagccacagg accgttttgg ggctgacctg tcttattacg tatgtacttc taggttgcaa ggttttgaaa tttctgtac agtttgtag gacctttgca ctttgccatc tgatgtcga cctcggttca ctgtttgtt tcgaatgctt tgttttcata gagccctatt ctctcagac gtggaatat tggaaaaat ttaaaaaat taaaaattta aagcaatctt ggcagactaa acaagatca tctgtacatg actgtataat tacgattata gtaccactgc acatcatgtt tttttttttt aagacaaaaa agatgtttaa agacaaaaa ctgtgctgag aaagtatgcc ccacctatct ttggtatatg ataggttaca taaaaggag gtattggctg aactgaatag aggtcttgat cttgggaatg catgccagta atgtatttta cagtacatgt ttattatgtt caatatgtt atttgttct tcttttggta tttttaatta gggtatatga atattttgca ataattttaa taattattaa gctgtttgaa ggaagaata tggatttttc atgtcttgag gttttgttca tgcacctttt gactgtcag tgtgataagg actttaggaa aaaaagcatg tatgtttttt actgtttgta ataagtaact tcgttaactt tgctgcttat gtgccaatgt agtggaataa acaaacctt gctgaaaaat tccctcttcc cattctctt caattctgtg atattgtcca agaatgtatc aataaggaaat tc MVQLRKLVR LTLMKFPCCV LEVLICALAA AARGQEMAP HSIRIEDVT LGGLFPVHAK P GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDPNLEPNT LGARILDTCs RDTYALEQSL TFVQALIQKD TSDVRCNTE PFVVRPEKV VGVIGASGSS VSIMVANILR LFQIPQISYA STAPELSDDR RYDFFSRVVP PDSFQAQAMV DIVKALGWNY VSTLASEGSY GEKGVESFTQ ISKEAGGLCI AQSVRIPOER KDRTIDFDRI IKQLLDTPNS RAVVIFANDE DIKQILAAAK RADQVGHFLW VGSDSWGSKI NPLHQHEDIA EGATITQPKR ATVEGFDAYF TSRTLENNRR NWFAEYWE NFNCKLTISG SKKEDTRKC TQERIGKDS NYEQGRVQF VIDAVYAMAH ALHMMNKDLC ADYRGVCPEM EQAGGKKLLK YIRNVNFGS AGTPVMENKN GDAPGRYDIF QYQTTNSNP GYRLIGQWTD ELQLNIEDMQ WGKGVRIPA SVCTLPCKPG ORKKTOKGTP CCWTCEPCDG YQYQFDEMT C QHCPYDQPN ENRTGQDIP IIKLEWHPW AVIPFVLAML GIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLIAKP DVAVCSFRRV FLGLGMCISY AALLTKTNRI YRIFEQGRKS VTAPRLISPT SOLAITSSLI SVQLLGVFIV FGVDPPNII DYDEHKTMNP EQARGVLKCD ITDLQICSL GYSILLMVT TTYAIKTRGV PENFNEAKPI GFTMYTTCIV WLAFIPIFG TAQSAEKLYI QTTTLTISMN LSASVALGML YMPKYIIIF HPENLVQKRK RSEKAVVTAA TMSSRLSHKP SDRPNGEAKT ELCENVDPNS | Homo sapiens |
|-----|---|-------------|------|--|-----------------|

183

3100

Metabotropic
Glutamate
Receptor 8

PAAKKKKYVSX NNLVI

tgcgtgtgtg caagaataaa ctttgggtct tggattgcaa taccacctgt ggagaaaatg A
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 ctacttggtt atattcgggc tgtaaaattt aatggcagtg ctggcactcc tgtcactttt
 aatgaaaaac gagatgctcc tggacgttat gatatcttc agtatcaaat aaccaacaaa
 agcacagagt acaagtcac cggccactgg accaatcagc ttcatctaaa agtggaaagac
 atgcagtggg ctcatagaga acatactcac ccggcgtctg tctgcagcct gcctgtgaag
 ccaggggaga ggaagaaaac ggtgaaaagg gtcccttctg tctggcactg tgaacgctgt
 gaaggttaca actaccagg gtgatgagctg tctctgtgaa ttgcccctct ggatcagaga
 cccacatga accgcacagg ctgacagctt atccccatca tcaaatgga gtggcattct
 ccttgggctg tgggtgctgt gtttgttga atattggaa tcatgccac cacttttgtg
 atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acggaactt
 agttacgtgc tccaaacggg gattttctc tgtatttcaa tcacgttttt aatgattgca
 gcaccagata caatcatatg cctctccga cgggtcttcc taggacttgg catgtgtttc
 agtatgcaag ccttctgac caaaacaaa cgtatccacc gaattattga gcaggggaaag
 aaatctgca cagcgcaca gttcatattg ttcacatcag cagcatctc agctggtgat cacttcagc
 ctcatctccg tccagctcct tggagtggtt gtcgtgtttg ttgtggatcc ccccacatc
 atcattgact atggagagca gcggacacta gatcagaga aggcagggg agtgcacaag
 tgtgacattt ctgatctctc actcatttgt tcaattggat acagtatcct cttgatggtc

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sapiens

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|-----|------|---|---|-----------------|
| 184 | 3100 | Metabotropic NP_000836.1 Glutamate Receptor 8 | acttgtagtctg tttatgcca taaacacgaga ggtgtccacg agactttcaa tgaagccaaa cctattggat ttaccatgta taccacctgc atcatttggg tagctttcat ccccatcttt ttggtagag cccagtcagc agaaaagatg tacatccaga caacaacact tactgtctcc atgagtttaa gtgcttcagt atctctgggc atgtctctata tgcccaaggt ttatatata attttcatc cagaacagaa tgttcaaaa cgcaagagga gcttcaagc tggtgtgaca gtgcccacca tgcaagcaa actgatccaa aaaggaatg acagaccaaa tggcgaggtg aaaagtgaac tctgtgagag tcttgaacc aacacttct ctaccaagac aacatatac agttacagca atcattcaat ctgaacacag gaaatggcac aatctgaaga gacgtggtat atgatcttaa atgatgaaca tgagaccgca aaaattcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgt aggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaacccgt ttatacaaa aataccaat agtgcacagc taaagtattg ctattctatg agcagttaaa acaatacaca aaaggaaaac taatgttagc tcgtgaaaaa aatgctgttg aaataataaa tgtctgtagt tattcttgta ttttctgtg attgtgagaa ctcccgctcc tgtccacat tgtttaactt gtataagaca atgagctctg ttcttgtaat ggctgaccag attgaagccc tgggtgtgac taaaaataaa tgcaatgatt gatgcagca atttttata caataaatt atttcaata ataaaggaat gtttgcacaa aaaaaaaa aaaaactcga g | Homo sapiens |
| 185 | 3212 | Opioid mu- type Receptor | ggaattcccg ctataggcag aggagaatgt cagatgctca gctcgggtccc ctccgcctga A cgctcctctc tgtctcagcc aggaactggtt tctgtgaaga acagcaggag ctgtggcagc ggcgaaagga agcggtctgag gcgcttgga cccgaaaagt ctggtgctc ctggtacact cgcacagcgg tgcgcgcgcg gcgctcagta ccatggacag cagcgtctgc ccacgaacg ccagcaatg cactgatgcc ttggcgtact caagtgtctc ccacgaccc agccccggtt cctgggtcaa ctgtccccac ttagatggca acctgtccga ccatgycgtt ccgaaccgca ccaacctggg cgggagagac agcctgtgccc ctccgaccgg cagtccctcc atgatcacg ccatcacgat catggccctc tactccatcg tgtgctggtt ggggctcttc ggaacttcc | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 186 | 3212 | Opioid mu- type Receptor | NP_000905.1 | MDSSAAPTNA SNTCDALAYS SCSAPSPGS WVNLSHL DGN LSDPCGNRT NLGRDSLCP P | Homo sapiens |
| | | | | tgggtcatgta tgtgattgtc agatacacca agatgaagac tgccaccaac atctacattt tcaaccttgc tctggcagat gccttagcca ccagtaacct gcccttccag agtgtgaatt acctaatggg aacatggcca ttgtgaaacca tcccttgcaa gatagtgatc tccatagatt actataacat gttcaccagc atattcacc tctgcacccat gagtgttgat cgatacattg cagttctgcca cctgtcaag gccttagatt tccgtactcc ccgaaatgcc aaaattatca atgtctgcaa ctggatcctc tcttcagcca tgggtcttcc tgltaattgtc atggctacaa caaaatacag gcaaggttcc atagattgta cactaacatt ctctcatcca acctggtact gggaaaacct cgtgaagatc tgtgttttca tcttcgcctt cattatgcca gtgctcatca ttaccgtgtg ctatggactg atgatcttgc gcctcaagag tgtccgcag ctctctggct ccaaaagaaa ggacaggaat ctctgaagga tcaccaggat ggtgctggtg gtggtggctg tgttcacgt ctgctggact cccattcaca tttaacgtcat cattaaagcc ttggttacaa tcccagaaac tacgttccag actgtttctt ggcacttctg cattgctcta ggttacaaa acagctgcct caaccagtc ctttatgcat ttctggatga aaacttcaa cgaatgcttca gagagtctg tatcccaacc tcttccaaca ttgagcaaca aaactccact cgaattcgtc agaacactag agaccacccc tccacggcca atacagtga tagaactaat catcagctag aaatctgga agcagaaact gctccgttc ctaaacagg tctcatgcca tccgacctt caccagctt agaagccacc atgtatgtgg aagcaggttg cttcaagaat gtgtaggagg ctctaattct ctaggaaagt gctactttt aggtcatcca acctcttcc tctctggcca ctctgctctg cacattagag ggacagccaa aagtaagtg agcatttga agaaaaggaa tataccacac caggagctcc agtttgtgca agacacccag tggaaccaa accatcgtg gtatgtgaat tgaagtcac ataaaagggt acccttctgt ctgtaagatt ttattttcaa gcaaatattt atgacctcaa caaagaagaa ccatctttt ttaagttcac cgtagtaaca cataaagtaa atgctacctc tgatcaagc accttgaat gaaggtccga gtctttttag tgtttttgca agggaatgaa tccattatc tattttagac tttaacttc aacttaaaat tagcatctgg ctaaggcacc attttccact ccatcttctg gttttgtatt gtttaaaaaa aataacatct ctttcatcta gctccataat tgcaaggga gagattagca tgaaaggtaa tctgaacac agtcatgtgt canctgtaga aaggttgatt ctcacgact ncaaatactt ccaaaagatc atcatggggg attttccatt cttaggcttt cagtggtttg ttcctggaat tc | |
| 187 | 3223 | Muscarinic acetylcholin e Receptor M1 | NM_000738 | EQQNSTRIRQ NTRDHPSTAN TVDRTNHQLE NLEAETAPLP atgaacactt cagccccacc tgcgtcagc ccaacatca ccgtctctgg accaggaag A ggtccctggc aagtgccctt cattgggac accacgggcc tctgtcgtc agcacagtg acaggcaacc tgcgtgtact catctcttc aaggtcaaca cggagctcaa gacagtcaat aactacttcc tgcgtgacct ggcctgtgct gacctcatca tgggtacctt ctccatgaac ctctatacca cgtacctgct catgggccac tgggctctgg gcacgtggc ttgtgacctc | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 188 | 3223 | Muscarinic acetylcholin e Receptor M1 | NP_000729.1 | <p> tggctggccc tggactatgt ggcagccaat gcctccgtca tgaatctgct gctcatcagc tttgaccgct acttctcgt gactcggccc ctgagctacc gtgccaagcg cacaccccg cgggcagctc tgatgatcgt gctcggcctgg ctggttctct ttgtgctctg ggcgccagcc atctcttctt gccagctacgt ggtaggggag cggagatgct tagctgggca gtgtacatct cagttcctct ccagcccat catcaccttt ggcacagcca tggctgcctt ctactcctc gtcacagtca tgtcacgct ctactggcgc atctaccggg agacagagaa ccgagcacgg gagctggcag cccttcaggg ctccgagacg ccaggcaaa ggggtggcag cagcagcagc tcagagaggt ctccagccagg gctgagggc tcaccagaga ctctccagg ccgtgctgt cgctgctgc gggcccccag gctgctgag cctacagct ggaaggaga agaggaagag gacgaagct ccattggagc cctcacatcc tcaggaggag aggagcctgg ctccgaagt gtgatcaaga tgccaatggt ggaccccgag gcacaggccc ccaccaagca gcccacagg agtcctccaa atacagtcaa gaggcgact aagaaaggcc ctgacgagc tggcaaggcc cagaagcccc gtggaaggga gcagctggcc aagcgaaga cttctcgtt ggtcaaggag aagaaggcgg ctccgacctt gactgacct ctctggcct tcactctac ctggacaccg tacaacatca tgggtgctggt gtccacctt tgcaggagct gtgtccccg gacctgtgg gagctgggct actggctgtg ctacgtcaac agcacatca acccatgtg ctacgcactc tgcaacaaag cttcccgga caccttcgc ctgtgctgc ttgcccgtg ggacaagaga cgctggcgca agatcccaa gcgcctcggc tccgtgcacc gcactccctc ccgccaatgc tga </p> | Homo sapiens |
| 189 | 3224 | Muscarinic acetylcholin e Receptor M2 | NM_000739 | <p> MNTSAPPAVS PNITVLAPGK GPQVAFIGI TTGLLSLATV TGNLLVLISF KVNTLKTVN P NYFLLSLACA DLIIGTFSMN LYTTYLMGH WALGTLACDL WLALDYVASN ASVNNLLIS FDRYFSVTRP LSYRAKTPR RAALMIGLAW LVSFVLWAPA ILFWQYLUGE RMLAGQCYI QFLSQPIITF GTAMAAFYLP VTVMCTLYWR IYRETNRAR ELAALQSET PGKGGSSSS SERSQPGAEG SPETPPGCC RCCRAPRLQ AYSWKEEEE DEGSMSLTS SEGEFPGSEV VIKMPVDPE AQPTKQPPR SSPNTVKRPT KKGDRAGKG QKPRGKEQLA KRRTFSLVKE KKAARTLSAI LLAFLITWP YNIMVLVSTF CKDCVPETLW ELGYWLCYVN STINPMCYAL CNKAFRDTR LLLLCRWDKR RWRKTPKRP SVHRTPSRQC atgaataact caacaaactc ctctacaact agcctggctc ttacaagtcc ttataagaca A tttgaagtgg tgtttattgt cctggtggct ggtaccctca gtttggtag cattatcggg aacatccctag tcatggtttc cattaaagtc aacggccacc tccagaccgt caacaattac ttttattca gcttggcctg tctgacctt atcataggtg ttttctccat gaacttgtac acccttaca ctgtgattgg ttaactggct tbgggacctg tgggtgtga ccttggcta gccctggact atgtgtcag caatgcctca gttatgaatc tgcatacat cagctttgac aggtaactct gtgtacaaa acccttgacc ctgggtcctc taccagtca agcggaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcctc tctttcatcc tctgggctcc agccattctc ttctggcagt tcattgtagg gttgagaact gtggaggatg gggagtgtca cattcagttt tttccaatg ctgctgtcac gtttggtagc gctattgcag ccttctattt gccagtgtc atcatgactg tgcataattg gcacatatcc cgagccagca agagcaggat aaagaaggac aagaaggagc ctgttgccaa ccaagacccc gtttctccaa gtctgtgata aggaaggata gtgaagccaa acaataacaa catgcccagc agtgacgatg gcctggagca caacaaaatc cagaatggca aagccccag ggtactctgt actgaaaact gtgttcagg agaggagaag </p> | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 190 | 3224 | Muscarinic acetylcholin e Receptor M2 | NP_000730.1 | <p>gagagctcca atgactccac ctcagtcagt gctgtgacct ctaatatgag agatgatgaa ataacccagg atgaaacac agtttccact tccctgggcc attccaaaga tgagaactct aagcaaacat gcatcagaat tggcaccag accccaaaaa gtgactcatg taccccaact aataccaccg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt gtagcccgca agattgtgaa gatgactaag cagcctgcaa aaaagaagcc tcctccttcc cgggaaaaa aagtcaccag gacaatctg gctattctgt tggctttcat catcactgg gccccataca atgtcatggt gctcattaac acctttgtg caccttgcat ccccaacat gtgtggacaa ttggttactg gctttgttac atcaacagca cttatcaacc tgcctgctat gcactttgca atgccacctt caagaagacc tttaaacacc ttctcatgtg tcattataag aacataggcg ctacaaggta a</p> | Homo sapiens |
| 191 | 3226 | Muscarinic acetylcholin e Receptor M4 | LG1143 | <p>FLFSLACADL IIGVESMNLV TLYTVIGWLP LGPVVCDLWL ALDYVVSNAS VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMIAAAWVL SFILWAPAIL FWQFIVGVRT VEDGECYIQF FSNAAVTFTG AIAAFYLPVI IMTVLYWHIS RASKSRKKD KKEPVANQDP VPSLIVQRI VKPNNNMPS SDDGLEHNI QNGKAPRDPV TENCVOGEEK ESSNDSTSVS AVASNMRRDE ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTVEVVGSS QONGDEKONI VARKIVMTK QPAKKKPPPS REKKVTRTIL AILLAFITW APYNVMVLIN TFCAPCIENP VWTIGYWLKY INSTINPACY ALCNATFKKT FKLLMCHYK NIGATR</p> | Homo sapiens |
| 192 | 3226 | Muscarinic acetylcholin e Receptor M4 | NM_000741 | <p>CCTGGCAGTG CCGATGTTCC GATACGTGCA CAGCAGCAGG TGCCGGGAAG TCTTTTAAA A GGTGGCGTGG CACAGAGCAT AGCAGGCAGG GTTGATGGTG CTGTTGACGT AGCAGAGCCA GTAGCCAATG GACCACACCG GGTACAGGAT GCAGCTCTGG CAGAAGGTGT TCACCAGGAC CATGACGTTG TGAGGCGTCC CCGTGAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTG TGGCACTTTG CGCTCCCGGG CCCGCATCTG CCGCTTCTTG CGCACCTGGG TGCGAGCGAT GCTAGCGAAC TTGCGGGCCA CGTTGGCCGC AGCGGCATGC CAGNCGGCGT GGGAGGGACA ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGGCTTG TCAAATTTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTCGGACTTG CGGGCATGAA TCCAGGCCCTT ACTCTANAGG ATCCCCCCT CTCC</p> | Homo sapiens |

| Accession | Gene | Protein | Species |
|-----------|------|--|--------------|
| 193 | 3226 | Muscarinic acetylcholin e Receptor M4 | Homo sapiens |
| 194 | 3227 | Muscarinic Acetylcholin e Receptor M5 | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 195 | 3227 | Muscarinic Acetylcholin e Receptor M5 | NP_036257.1 | atggtccctgg tttctacct ctgtgacaag tgtgtcccaag tcacctgtg gcacttgggc tattggtgt gctatgtcaa tagcactgtc aaccccatct gctatgccct ctgcaacaga accttcagga agacctttaa gatgtgctt ctctgcccgt ggaataagaa aaaagtggaa gagaagtgtg actggcaggg gaacagcaag ctaccctga MEGDSYHNAT TVNGTPVNHQ PLEHRLWEV ITIAAVTAV SLITIVGNVL VMISFKVNSQ P LKTNNYYLL SIACADLIIG IFSMNLYTTY ILMGRWALGS LACDLWLALD YVASNASVMN LLVISFDRLF SITRPLTYRA KFTPKRAGIM IGLAWLISFI LWAPAILCWQ YLVGKRTVPL DEQIQFLSE PTITFGTALA AFYIPVSVMT ILYCRIYRET EKRTKDLADL QGSDSVTKAE KRKPAHRAFL RSCLRCPRPT LAQRERNOAS WSSRRSTST TGKPSQATGP SANWAKAEQL TTCSSYPSSSE DEDKPADPV LQVYKSQKQ ESPGEFEFSAE ETEETFVKAE TEKSDYDTPN YLLSPAAHR PKSQKCWAYK FRLVWKADGN QETNNGCHKV KIMPCFPFVA KEPSTKGLNP NPSHQMTKRK RVLVKERKA AQTLSAILLA FIITWTPYNI MVLVSTFCDK CVPVTLWHLG YWLCYVNSTV NPICYALCNR TFRKTFKMLL LCRWKKKKVE EKLYWQGN SK LP ctattgcagt atctttcagc ttccagctctt atctgaagac cccggcacc aagtgaccag A gaggcagaga agaacttcag aggagctctg tcttgggctg cccgtgggtg agtgggaggg tccgggactg cagaccggtg gcgatggcca ctctcccagc agcagaaacc tggatagacg gggtggagg cgtgggtgca gacgccgtga acctgaccgc ctgctagct gccggggcgg ccacgggggc agttgagact ggttggtgctg aactgctgga ccaagctggc aacctctct ctctcccttc cgcgctggga ctgctgtggt cttccccgc gccctcccag cccctggcca acctcacc aa cagttcgtg cagccgtctt ggcgcacgc gctctggtcc ctggcgtatg gtgtgtgtgt ggcagtggca gttttgggaa atctctatgc atctggtatc atctggccc acaagcgcct gaggactgct accaactact tcttgtgaa cctggctttc tccgacgcct ccatggccgc cttcaaacgc ttgttcaatt tcatctacgc gcttcatagc gagtggctact ttggcgccaa ctactgccgc ttccagaact tcttctctat cacagctgtg ttgcccagca tctactccat gacggccatt gcggtggaca ggtatatggc tattattgat cccctgaaac ccagactgtc tgtacagca accaagattg tcatgggaag tatttgatt ctgacatttc tacttgctt cctcagctg ctttatcca aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccacaa aacatttccac ttaccatatt atcgtcatta tactgtgtga ctgtttccca ttgctcatac tgggtattac atacaccatt gttggaatta ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg ccaaaagaaa ggttgtcaaa atgatgatta ttgttgtcat gacatttgc atctgctggc tgccctatca tatttacttc atttctactg caatctatca caactaaaat agatggaaaat acatccagca ggtctacctg gctagctttt ggctggcaat gagctcaacc atgtacaatc ccatcatcta ctgctgtctg aataaaagat ttgagctgg cttcaagaga gcatttcgct ggtgtccttt catcaaaagt tccagctatg atgagctaga gctcaagacc accaggtttc atccaaaccg gcaaaagcagt atgtacaccc tgaccagaat ggagtccatg acagtctgtg ttgaccccaa cgatgcagac accaccaggt ccagctggaa gaaaagagca acgccaagag accaaagttt caatggctgc tctgcagga attccaaatc tgcctccgcc acttcaagtt tcataagctc accctatacc tctgtggatg aatatcttta attccatttc ctgaggtaaa agattagtgt gagaccatca tgggtgccagt ctaggacccc attctcctat ttatcagttc tgtcctatat accctctaga aacagaaagc aatttttag cagctatggt caaattgaga | Homo sapiens |
| 196 | 3378 | Tachykinin Receptor 3 | NM_001059 | gaggtccctgg tttctacct ctgtgacaag tgtgtcccaag tcacctgtg gcacttgggc tattggtgt gctatgtcaa tagcactgtc aaccccatct gctatgccct ctgcaacaga accttcagga agacctttaa gatgtgctt ctctgcccgt ggaataagaa aaaagtggaa gagaagtgtg actggcaggg gaacagcaag ctaccctga LKTNNYYLL SIACADLIIG IFSMNLYTTY ILMGRWALGS LACDLWLALD YVASNASVMN LLVISFDRLF SITRPLTYRA KFTPKRAGIM IGLAWLISFI LWAPAILCWQ YLVGKRTVPL DEQIQFLSE PTITFGTALA AFYIPVSVMT ILYCRIYRET EKRTKDLADL QGSDSVTKAE KRKPAHRAFL RSCLRCPRPT LAQRERNOAS WSSRRSTST TGKPSQATGP SANWAKAEQL TTCSSYPSSSE DEDKPADPV LQVYKSQKQ ESPGEFEFSAE ETEETFVKAE TEKSDYDTPN YLLSPAAHR PKSQKCWAYK FRLVWKADGN QETNNGCHKV KIMPCFPFVA KEPSTKGLNP NPSHQMTKRK RVLVKERKA AQTLSAILLA FIITWTPYNI MVLVSTFCDK CVPVTLWHLG YWLCYVNSTV NPICYALCNR TFRKTFKMLL LCRWKKKKVE EKLYWQGN SK LP ctattgcagt atctttcagc ttccagctctt atctgaagac cccggcacc aagtgaccag A gaggcagaga agaacttcag aggagctctg tcttgggctg cccgtgggtg agtgggaggg tccgggactg cagaccggtg gcgatggcca ctctcccagc agcagaaacc tggatagacg gggtggagg cgtgggtgca gacgccgtga acctgaccgc ctgctagct gccggggcgg ccacgggggc agttgagact ggttggtgctg aactgctgga ccaagctggc aacctctct ctctcccttc cgcgctggga ctgctgtggt cttccccgc gccctcccag cccctggcca acctcacc aa cagttcgtg cagccgtctt ggcgcacgc gctctggtcc ctggcgtatg gtgtgtgtgt ggcagtggca gttttgggaa atctctatgc atctggtatc atctggccc acaagcgcct gaggactgct accaactact tcttgtgaa cctggctttc tccgacgcct ccatggccgc cttcaaacgc ttgttcaatt tcatctacgc gcttcatagc gagtggctact ttggcgccaa ctactgccgc ttccagaact tcttctctat cacagctgtg ttgcccagca tctactccat gacggccatt gcggtggaca ggtatatggc tattattgat cccctgaaac ccagactgtc tgtacagca accaagattg tcatgggaag tatttgatt ctgacatttc tacttgctt cctcagctg ctttatcca aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccacaa aacatttccac ttaccatatt atcgtcatta tactgtgtga ctgtttccca ttgctcatac tgggtattac atacaccatt gttggaatta ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg ccaaaagaaa ggttgtcaaa atgatgatta ttgttgtcat gacatttgc atctgctggc tgccctatca tatttacttc atttctactg caatctatca caactaaaat agatggaaaat acatccagca ggtctacctg gctagctttt ggctggcaat gagctcaacc atgtacaatc ccatcatcta ctgctgtctg aataaaagat ttgagctgg cttcaagaga gcatttcgct ggtgtccttt catcaaaagt tccagctatg atgagctaga gctcaagacc accaggtttc atccaaaccg gcaaaagcagt atgtacaccc tgaccagaat ggagtccatg acagtctgtg ttgaccccaa cgatgcagac accaccaggt ccagctggaa gaaaagagca acgccaagag accaaagttt caatggctgc tctgcagga attccaaatc tgcctccgcc acttcaagtt tcataagctc accctatacc tctgtggatg aatatcttta attccatttc ctgaggtaaa agattagtgt gagaccatca tgggtgccagt ctaggacccc attctcctat ttatcagttc tgtcctatat accctctaga aacagaaagc aatttttag cagctatggt caaattgaga | Homo sapiens |

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|-----|------|--------------------------|-------------|--|-----------------|
| 197 | 3378 | Tachykinin Receptor 3 | NP_001050.1 | aaagtgatgtg ataaatgtga caaagacact aataacatgt tagcctccac ccaaaataaa atgggcttta aattt PVASPAEQP WANLTNQVQ PSWRALMSL AYGVVAVAV LGNLIVII LAHKRMRTVT NYFLVNLAFS DASMAFNTL VNFYALHSE WYFGANYCRF QNFFITAVF ASIYSMTAIA VDRYMAIIDP LKPLRSATAT KIVIGSIWIL AFLAFPQCL YSKTKVMPGR TLCFVQWPEG PKQHFTYHII VIILVYCFPL LIMGITYIV GITWGGEP GDTCDKYHEQ LKAKRKVVKM MIIVMTFAI CWLPYHIYFI LTAIYOQLNR WKYIQOYILA SFWLAMSSTM YNPITYCCLN KRFRAGFKRA FRWCFFIKVS SYDELELKT RFHPNRQSSM YTVTRMESMT VVDFPDADT TRSSRKKRAT PRDPSFNGCS RRNSKSASAT SSFISSPYTS VDEYS | Homo sapiens |
| 198 | 3380 | Neuromedin B Receptor | NM_002511 | gtgctgtgag gcttgccgc ggacagttaa cttgagggg cgagagggag ggacatcgat A taaacctaaa tcgtggcgt tcagtcctca gggcacggag cgcgtgaaaa ctccagcggg ctctgctgga aaggagatca tgccctctaa gctctctcc aacctctcg tgaccaccgg cggaatgag agcgggttcg ttcccgagg gtgggaaagg gatttctgc cggcctcgga cgggaccacc acggagttgg tgatccgctg tggatcccg tccctctacc tgcctcatc cacgtgggc ttgctgggca acatctgct ggtgaagatc ttcatcaca acagcgccat gaggagcgtc ccaacatct tcatctctaa cctggcgcc gggacttgc tgcgtgctg cacctgctc ccggtggag cctgcgcta cttctcgac gattggtatg ttggcaaggt gggctgcaaa ctgacctcg tcatccagct cacttccgtg ggggtttccg tttcactct cactgcccctc agcgcgaca ggtacagagc catcgttaac cccatggaca tgcagacgtc agggcattg ctgcggacct gtgtgaaggc catggtatc tgggtggtct cctgtgtgct ggcagttccc gaagcgtgt tttcagaagt ggtcggatc agtagcttgg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaga ttcattcagt gtcattttc ttggtctatt tccctatcc acttgcatt attagcattt attattatca tattgcaaa agccttaatta aaagcgaca caatctctc ggagaataca atgaacatac caaaaaacag atggaaacac ggaacgcct ggctaaaatt gtgcttctct ttgtgggctg ttcatcttc tgttggtttc caaacacat ccttaccatg tatcggtctt tcaactataa tgagattgat ccatctctag gccacatgat tgcacctta gttgcccggt tctcagttt tggcaattct tgtgtcaacc cattgtctt ttacctactc agtgaaagct tcaaggaggca tttcaacagc caactctgct gtggaggaa gtccctatcaa gagagaggaa ccagctacct actcagctct tcagcgtgc gtatgacatc tctgaaagc aatgtaaga acatggtgac caattctgt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctactggag agaactagt aa | Homo sapiens |
| 199 | 3380 | Neuromedin B Receptor | NP_002502.1 | MPSKSLNLS VTGANEVSGS VPEGERDFL PASDGTTEL VIRCVIPSLY LLITVGLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLTCTVPVD ASRYFFDEWM FGKVGCKLIP VIQLTSVGS VFTLTALSAD RYRAIVNPMQ MQTSGALLRV CVRANGIWW SVLLAVPEAV FSEVARISL DNSSFTACIP YPQDELHPK IHSVLFLVY FLPLAIISI YYTHIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFICWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCW PFALYLLSES FRRHNSQLC CGRKSQYQERG TSYLLSSAV RMTSLKSNK NMVTNSVLLN GHSMKQEMAM | Homo sapiens |

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|-----|------|--------------------------------|-----------|---|--------------|
| 200 | 3404 | Neuropeptide Y Receptor Type 2 | NM_000910 | tatcctatcc ctatcctagc ttttaacctg agccagagct cactacacag gttcctggct A | Homo sapiens |
| | | | | atcgagctg aatctgcact actcaactta taaactgtct gcagacacct gtaggggaaa | |
| | | | | ttgctgata tggcgccag gatctgaact cgtttacct tctgtttgg agcacaggga | |
| | | | | cgccccagct agaggagcac cagcgcactg cgccccagcc ctggcgagg gtgcggagga | |
| | | | | tttgtctcg gtgcaatcct gctggcgctt ttccgggggt ctgcgcggat ccagctcccc | |
| | | | | atctctgct ctacacacac aaagaaaaa aactctcgat tggaaattgt ggaattttct | |
| | | | | cagccccac gagcgcggg gattctccag ccccgccct cctccccca gctgaggtc | |
| | | | | tccttcgctc gctgcccctg ctagggaccc cagtcctcca gcgcagctg ggtctgtccg | |
| | | | | ccccgcctt gccctgcct tttcccggg cggtatttgt gaagtcggcc tcaagtccag | |
| | | | | gaggtctgtc ttcccgggc cagctctgc ggaactgggg ggtagagagc aaaggagag | |
| | | | | attcgtgga ggaaggag gtaggggtgg cgcaaaccc cagagtatca aacttgggg | |
| | | | | tggcacagta ggtgacagca gcagctgcag gtggtggctg gggacccgc agggggcgc | |
| | | | | cctctggga ggtctggct gagcgggctt gcaagcccg gagcggtg agagaccctg | |
| | | | | gacactgtc ctgctccct gccacaaaa ctctccctc agtccccct cctgcaggac | |
| | | | | catcgccgc agcctctgca cctgttttct tgtgtttaag ggtgggttt gcccccctc | |
| | | | | ccacgtccc atctctgac ctcccacct caccgccea cccgcgagt gagtgcgtg | |
| | | | | cccagcgcg cttggcctga gagtgcgca gcagaccgg cagcgccaa cgcacagcg | |
| | | | | ctctgactg tccggctgc cgcccgcg cgcggggtg tctggacc taggagggga | |
| | | | | cggaaccga cttgccttg ggcaccttc agggccctct ccaggtcggc tggctaata | |
| | | | | tcggacagac ggaactgcaca catctgttt ccgctgtcc gcaaaaacg gaggtccagg | |
| | | | | tcagtgtgag actctgtgc tgggtgcagg ccaagtggc ctgtactgaa aatgggtcca | |
| | | | | ataggtgcag aggtgatga gaaccagaca gtggaagaaa tgaagtgga acaatacagg | |
| | | | | ccacaaaca ctctagagg tgaactggtc cctgacctg agccagagct tatagatagt | |
| | | | | accaagctga ttgaggtaca agttgttctc atattggct actgtccat catcttgctt | |
| | | | | gggttaattg gcaactcctt ggtgatccat gtggtgatca aattcaagag catgcgcaca | |
| | | | | gtaaccaact ttttcattgc caatctggt gtggcagatc ttttggtgaa cactctgtgt | |
| | | | | ctaccgttca ctcttaccta tacctaatg ggggagtga aaatgggtcc tgtcctgtgc | |
| | | | | caactgtgc ctatgccc a ggcctggca gtacaagtat ccacaatcac cttgacagta | |
| | | | | attgccctgg accggcacag gtgcatcgtc taccacctag agagcaagat ctccaagcga | |
| | | | | atcagcttcc tgattattgg cttggcctgg ggcatacagt cctgtctgc aagtccccctg | |
| | | | | gcatcttcc gggagtattc gctgattgag atcatcccg actttgagat tgtggcctgt | |
| | | | | actgaaaagt ggcctggcga ggagaagagc atctatggca ctgtctatag tctttcttc | |
| | | | | ttgttgatct tgtatgttt gcctctgggc attatatacat tttctctacac tgcattttg | |
| | | | | agtataattga agaaccatgt cagtcctgga gctgcaaatg accactacca tcagcgaag | |
| | | | | caaaaaacca ccaaaatgct ggtgtgtgtg gtggtgtgtg ttgcgggtcag ctggctgct | |
| | | | | ctccatgctt tccagcttgc cgttgacatt gacagccagg tcttgagacct gaaggagtac | |
| | | | | aaactcatct tcaagtggt ccacatcac gccatgtgct ccacttttgc caatccccctt | |
| | | | | ctctatggct ggtggaacag caactacaga aaggttttcc tctcgccctt ccgctgtgag | |
| | | | | cagcggttgg atgcatctca ctctgaggtg tccgtgacat tcaaggctaa aaagaacctg | |
| | | | | gaggtcagaa agaacagtgg cccaatgac tctttcacag aggtaccacaa tgtctaaagg | |
| | | | | agctgtgtgtg tgaataatgta tggatgaatt ctgaccagag ctatgaatct ggtgatggc | |

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|------|--------------------------------|-------------|---|
| 3404 | Neuropeptide Y Receptor Type 2 | NP_000901.1 | <p>ggtctcacaag tgaaaactga tttcccat ttaagaagaa gtgatatctaa atggaagcat</p> <p>ctgtctgttta attcctggaa aactggctgg gcagagcctg tgtgaaaata ctggaattcca</p> <p>aagataaggg acaaaaatgg tttacttaac agttggttgg gtagtaggtt gcattatgag</p> <p>taaaagcaga gagaagtact tttgtatbatt ttcctggagt gaagaaaact tgaacaagaa</p> <p>attggtatta tcaaagcatt gctgagagac ggttggtgaaa taagttgact tcaaaatcac</p> <p>gttaggacct ggattgagga ggtgtgcagt tcgctgctcc ctgcttggtt tatgaaaaca</p> <p>ccactgaaca gaaattttct caggagacca caggctctcc ttcactgcac tttgattttt</p> <p>ttgttcattc tctagacaaa atccatcagg gaatgctgca ggaacagatt gccaaactata</p> <p>cgaaatggct cgaggagata aactgaaatt tgcataataa ttaatatattt ggcagatgat</p> <p>aggggaactc ctcaacatc agtgggctaa ttgttcttaa aaccaattgc acgtttggtg</p> <p>aaagtttctt caactctgaa tcaaaagctg aaattctcag aattacagga aatgcaaac</p> <p>atcatttaatt tctaatctc aagttacatc cgttttatgg agatactatt tagataacaa</p> <p>gaatacaact tgatactttt attgttatac ctttttgaac atgtatgatt tctgttgtta</p> <p>tttacctttt taaacagata aatatatttt tttcatttta gagttagcga atctaattct</p> <p>aatctaact ttttagagta tatttcagag aaattccaaq cacaccagta tgaccatctc</p> <p>tatttcagaa atgacaatgc atagaggaaa atgaataatgt gcaaaagcctc cgaagaggt</p> <p>ggttaagtaa agacttaggt taccagtatc aggtcttctg ctgcaaaact ttagaaggaa</p> <p>actgcctctc cttaaaacca aaaaaggaaa gagagactgg ctaggaaaact ttagaaggaa</p> <p>tggtctcgaa tagggttctc gggaggaaatc ccgaggaaat cactaatcca gcctgggagg</p> <p>ttgtctccac tatctctgtt tgctctacc cactaatcca gcctgggagg ctctgggcat</p> <p>tagcggaggg cttaaccaca aggagacag agcagattt ccataggcat gcgtctctag</p> <p>tgccacaggg ggtctgggtc aggatcaagg attgaaaggat tcggaagtca gctatctgga</p> <p>gagagagaga gattgtgttt tattctgttc ccatagcttt cctatcctat cctatctcta</p> <p>gcttttaacc tgagccagag ctcaactacac aggttccctg ctatcagatc tgaatctgca</p> <p>ctactcaact tataaactgt ctgcagacac ctgttaggga aattgctgat catggcgagg</p> <p>aggatctgaa ctgcctttac ctctctgttt ggagcacagg gaccgcccag ctagaggagc</p> <p>accagcgcac tgcgccccag ccttgggcga gggtcgagg gattttctt cggtgcaatc</p> <p>ctgtctggcg ttttcggggg tcttgccggg attggaagt ttccagctcc cctacacac</p> <p>acaaaagaaa acaactctcg attggaagt ttccagctcc cctacacac cctacacac</p> <p>gggattctcc agccccggcc ctctctccgc cagcctgagg tctctcttgc tcgctgctc</p> <p>tgctagggac cgcagtcctt cagcgcgacg tgggtctgtc cgccccgcct ttgcccctgc</p> <p>cttttcccg ggcggatttg gtgaagtcg cctcaagtc aggaggtctg tcttcgcggg</p> <p>gccagctctc</p> |
| 201 | | | <p>MGPIGADE NQTVEMKVE QYGPQTTPRG ELVPDPEPEL IDSTKLEIVQ WLILAYCSI</p> <p>ILLGVIGNSL VIHVVIKFS MRTVTNFFIA NLAVADLLVN TCLPFTFTLY TLMGEWRMGP</p> <p>VLCHLVPAQ GLAVQVSTIT LTVIALDRHR CIVVHLESKI SKRISFLIG LAWGISALLA</p> <p>SPLAIFREYS LIEIIPDFEI VACTEKWPG EKSIVGTVYS LSSLLILVVL PLGIISFSYT</p> <p>RIWSKLNVH SPGAANDHYH QRQKTKML VCVVVFAVS WLPLHAFOLA VDIDSQVILD</p> <p>KEYKLITVF HIIAMCSTFA NPLLYGMNS NYRKAFLSAF RCEQRLDAIH SEVSVTFKAK</p> <p>KNLEVRKNSG PNDSFTEATN V</p> |

| | | | | |
|-----|------|--|--|--------------|
| 202 | 3405 | Neuropeptide NM_005972 Y Receptor Type 4 | atgaacacct ctacacctt ggccttgctg ctcccaaat ctccacaagg tgaataacaga A agcaaacccc tgggcacccc atacaacttc tctgaacatt gccaggattc cgtggacgtg atggtcttca tgcctacttc ctacagcatt gagactgtg tgggggtctt gggtaacctc tgcctgatgt gtgtgactgt gaggcagaag gaaaaagca acgtgacca cctgctttat gccaacctgg ccttctctga cttctctatg tgcctctctt gccagccgtt gaccgcctc tacaccatca tggactactg gatcttttga gagacctct gcaagatgtc ggccttcac cagtgcattt cggtagcgtt ctccatcttc tgcctctctc tgcctgacct ggagaggcat cagctcatca tcaacccaac agcctggaag cagcagatct cacaggccca cctggggatt gtgctcatct ggtcattgc ctgtgtcttc tccctgacct tccctgcccc cagcatcctg gagaatgtct tccacaagaa ccaactccaag gctctggagt tccctggcaga taagtggtgc tgtaccgagt cctggccact ggctcaccac cgcaccatct acaccactt cctgtctctc ttccagtact gcctccact ggccttcact ctggtctgtt atgcacgat ctaccggcgc ctgcagaggc aggggcgcgt gttcacaaag ggcacctaca gcttgcgagc tgggcacatg aagcaggtca atgtggtgct ggtggtgatg gtggtggcct ttgctgtgct ctgctgctt ctgcattgtt tcaacagcct ggaagactgg caccatcagg ccaccacct ctgccacggg aacctcatct tcttagtgtg ccaactgctt gccatggcct ccaactgctt caaccattc atctatggct ttctcaaac caacttcaag aaggagatca aggccctggt gctgacttgc cagcagagcg cccctcgga ggaagtcgag catctgcccc tgtccacagt acatacgga gtctccaaag ggtccctgag gctaagtgc aggtccaatc ccatttaa NM_005963.1 MNTSHLLALL LPKSPQGENR SKPLGTPYNF SEHCQDSVDV VFIVITSYI ETVVGVLGNL P CLMCVTVRQK EKANVTNLLI ANLAFTDFLM CLLCQPLTAV YTIMDYWIF ETLCRMSAFI QCMSVTVSIL SIVLVALERH QLIINPTGWK PSISQAYLGI VLIWVIACVL SLPFLANSIL ENVFHKNHSK ALEFLADKV CTESWPLAH RTIYTFLLL FQYCLPLGFI LVCYARIYRR LQRQGRVFHK GTYSLRAGHM KQNVNVLVVM VVAFVWLWP LHVFNLSLEW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFNTNFK KEIKALVLT CQQSAPLESE HPLSLTVHTE VSKGSLRLSG RSNPI | Homo sapiens |
| 203 | 3405 | Neuropeptide NP_005963.1 Y Receptor Type 4 | gaaaggctat cggtaaacac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga attctgattt cccagtctgg gatgactata aaagcagtgt agatgactta cagtatcttc tgattgggct ctatacattt gtaagtcctt ttggctttat ggggaatcta cttattttaa tggctctcat gaaaagcgt aatcagaaga ctacggtaaa cttctcata ggaactctgg ccttttctga tatcttggtt gtgctgtttt gctcaccttt cacactgacg tctgtcttgc tggatcagtg gatgtttggc aaagtcatgt gccatattat gcctttctt caatgtgtgt cagttttggt ttcaacttta attttaatat caattgccat tgtcaggat catatgataa aacatcccat ttctgacctt ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttttgccatc tgttctcccc ttccagtgtt tcacagctt gtggaacttc aagaacatt ttgttcagca ttgttcagca gcaggatttt atgtgttgag tcatggccat ctgattcata cagaattgcc ttactatct ctttattgct agttcagtat attctgccct tagtttgtct tactgtaagt catacaagt tctgcagaag tataagctgt ggattgtcca acaagaataa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaa agagtgggccc tcagtgtaa ctctctggca gccataaatg | Homo sapiens |
| 204 | 3406 | Neuropeptide NM_006174 Y Receptor Type 5 | | Homo sapiens |

205 3406 Neuropeptide NP_006165.1
 Y Receptor
 Type 5 Homo sapiens

gagttattca ttcatcaaaa aacacagaaag aagatatagc aagaagacag catgtgtgtt
 acctgtctca gaaagacctt ctcaagagaa ccaactccaga atactccag aaaactttg
 ctctgtaaga agtcagctct ctcatccag taagtccata ccagggtcc cacttgctt
 tgagataaaa cctgaagaaa attcagatgt tcatgaattg agagtaaac gttctgttac
 aagaataaaa aagagatctc gaagtgtttt ctacagactg accatactga tattagtatt
 tgctgttagt tggatgccac tacacctttt ccatgtggtg actgatttta atgacaatct
 tatttcaaat aggcatttca agttgtgtga ttgcatttgt cattgtttgg gcatgatgtc
 ctgttgtctt aatccaattc tatatgggtt tcttaataat gggattaaag ctgatttagt
 gtcccttata cactgtcttc atatgtaata attctcactg ttt
 MDLELDEYN KTLATENNTA ATRNSDFPV DDYKSSVDDL QYFLIGLYTF VSLGFMGNL P
 LILMALMKR NQKTTVNFLI GNLAFSIDL VLFCSPTTLT SVLLDQWMEG KVMCHIMPFL
 QCVSVLVSTL ILISIALVRY HMIKHPLSN LTANHGYFLI ATVTILGFAL CSPLPVFHSI
 VELQETFGSA LLSSRYLCVE SWPSDSYRIA FTISLLVQY ILPLVCLTVS HTSVCRSISC
 GLSNKENRLE ENEMINLTH PSKKSQPQVK LSGSHKWSYS FIKHRRYS KKTACVLPAP
 ERPSQENHSR ILPENFGSVR SOLSSSKFI PGVPTCFEIK PEENSDVHEL RVKRSVTRIK
 KRRSVFYRL TILILVFAVS WMPLHLFHV TDENDNLISN RHFKILVYCIC HLLGMMSCCL
 NPILYGFLLN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531
 Receptor
 Type 1 Homo sapiens

tcaagctcgc ccgcgcgcgc cgcagccggg ctggcgctg tctctggggg cctgggggaa A
 cgcgcgttt ggagatgga cgcactgga accctggga agcccgagc cgggagacag
 cccgaggaac cagggttct ggagctagga gccgaagct gggagtcccg aggagagcgg
 agcccgagc cggagcccg gggcgcgcg tctgggtctg gcgttcccg actggagcgg
 gcgcgcgtg gtcttcgca cgcgcctcc cctgggctcg cgttcacatg tcccgctg
 agacgcgcc actctgccc ggaactccag ccgcggagg ccggacaga gccgcggact
 ccagcgccca ccatggcct caacagctc gcgcgggaa ccccgggcac gccgcggcc
 gaccccttc agcgggcga gcccgactg gagagggcg tctgtggccc gggcttcggc
 aacgctcgg gcaacgcgtc ggagcgcgtc ctggcggcac ccagcagcga gctggacgtg
 aacaccgaca tctactcaa agtgcgtggt accgcctgt acctggcgt cctcgtggtg
 ggcaacgtgg gcaacacggt gacggcgtc accgtggcg ggaagaagtc gctgcagagc
 ctgcagagca cgggtgatta ccactggg cgcctggcg tctcgcacct gctcaccctg
 ctgctggcca tgcccgtaga gctgtacaac tctacttggg tgacacacc ctgggctctc
 ggcgacgcg gctgcgcgg ctactactc ctggcgagc cctgcacct cgcacagggc
 ctcaacgtgg ccagcctgag tgtggagcgc tactctggcca cttgccacc cttaaggcc
 aagacctca tgtccgaag ccgaccaaag aagttcata ggcacatctg gctgcctcg
 gccctgctga cgggtgctat gctgttacc atggcgagc agaaccgcag gccgacggc
 cagcacgcg gcggcctggt gtgaccccc accatccaca ctgccaccgt caaggtcgtc
 atacaggta acaccttcat gtcctcata tccccatgg tgtcatctc ggtcctgaac
 accatcatcg ccaacaagct gacgtcatg gtacgccagg cggccgagca gggccaaagt
 tgcacggtcg gggcgagca cagcacatc agcatggcca tgcagcctcg cagggtccag
 gccctgcggc acggcgtgcg cgtcctacgt gcagtgtca tgcctttgt ggtctgtg
 ctgcccctacc acgtgcggcg cctcatgttc tgcatactc cggatgagca gtggactccg
 ttcctctatg acttctacca ctactctac atggtgacca acgcactctt ctacgtcagc

tcaccatca acccctctg gtacaacctc gtctctgcca acttcgcca catcttctg
gccacactgg cctgcctctg ccggtgtgg cggcgagga ggaagggc agccttctg
aggaaggcgg acagcgtgtc cagcaaccac accctctcca gcaatgccac ccgagagacg
ctgtactagg ctgtgcgccc cggaaactgt ccaggaggag cctggccatg ggtccttgcc
cccgacagac agagcagccc ccaccggga gccttgatgg gggtcaggca gaggccagcc
tgactggag tctgaggcct ggaccacccc cctccccc cctaaccat gtttctcatt
agtgtctccc gggcctgtcc ccaactctc cccacccc cctcatctcc tctttgaaag
ccagaacaag agagcgtcc tctcccat aggaaaagg cctctaaca ggagaaatta
gtgtgcgga aaaggcagtt tctttgttc tcagactaat ggatgttcc agagaaggaa
atgaaatgt ctgggtgggg ccgggctcc ccgggcccgg ctgctgttcc catgtccaca
tctctgagc ctgcacccc tctgtctagc tcggggagtc cagccccagt ccgcagcgt
ccgtggcctt ggccctcacg tgcagacct gccatgcaga cccatgccc cctccccag
gcagctcaa gaaagctccc tgactcgcc cttcaggcct ggcaagctgg gggcccatcg
ccgtggggag tccctccc caccctgcc caggcagct gcagccccc gaggggacca
caagcccaaa aaggacaaaa atgggctggc ctggaatggc ccagacccc gcctcccc
ctccctcca tctcaccca ggccaaggcc cagggtctct gccaggacac cacatgggag
ggggctcagg cctcagctc agatcttca gctgtggcct ctcgggctcg gcagaaggga
cgccggata gggccctggt ctccagcacc tgcccagtg gccgtggcca ggatggggtg
cgcttccgt gtgcttctgt tctagctgtg caggctgagg tctggagcca gggccagagc
tggtctcagg tggggcctt gagaaggga ggttcagggt gagaaggagc ggtgtgtcca
ctgagtaaga tgcaggctcc caggaactca ggttcagggt gagaaggagc ggtgtgtcca
ggcaccgtg gccggcagcc ctgggctgag gcacagacc atttgtacc tctggcggc
ggcagccctg gcccgccct ccaagcagtt gaaaaagctg ggcctcctt ggtctctagg
atccaggctc cacagagcac atgactagcc agggccctgg cttaagaagg tgccttaagc
ctaagagaag acagtcaccag gagaagctgg ccgggaccag ccaggagctg ggagccacag
gaagcaaaag tcagcctttt ctcaaggga tttccctgtc tcagagcagc ctttgcccc
gggaaatgg ctctgggctg gctgcctgca ccggccatgt cgacccagga ccgggacacc
tggtcttggg ctgtgttcag caactttgct tctctggac tcagtttccc cgtctgagaa
atgagagtcg aatgctacag tatctgagc cgcttgatc tggctgttga gttgacgggt
tccttgaacc ccacaaaatc cctctcaac cacaggacc ttgggctcac caagaacggg
gccagggga gtcaggccta ttcgtgca tcttgcca acttgccc caaagcctg
gtcatcagcc aggcagccct ccagtgccc aaggccacc aacccaggg aaacagggcc
agcacagag ggcttctc cccacagag cctccatgac atagtctgt ctgggaggaa
gagcttctgt gccagccagg gatgtccaga ggtcgttga gccctatcc ctgctcagga
gtgggtctcag agtctagcaa atgctaagg cctcaggct gggtcttga ccaggacctg
gactcagagc cagacagggc agctcagac cctctctgg ggtccttga ccttgggcca
taattctga gctcgggtt cccatctaa ggaacagatg tggctgttcc gccctctcag
ctggatgaga ctgtcttga ggatccccc cgaacacagc agacgggtgt cctcaggat
gggtctctga gagaggggcag agtgatgcc ccaatgccct agacctcgg tagacgtggg
gtctctgggg cggggtctgt ggctgtgact gaagtgggt tctccgttga tgtcttgatg
ctcctatctg tgcacttacc gtaggtaggg acagtgctcc atgcaccaca gacacacca

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|-----|------|--|-------------|---|-----------------|
| 207 | 3408 | Neurotensin Receptor Type 1 | NP_002522.1 | <p>cgacacctga tctcgtatca ctagcttgcg gccaggtcat gatgtggccc cggaagctgg ccctgctgac catgagtgc tcggtcatgg agtcgagcgc cccctgggtg acggcacagc cctcacagct caaacgcccc ccccactcc caccatctgc aggtggtgaa aacaaccccc gtgtatctct caataaaggt ggcgaaggg cctcgatg g MRLNSSAPGT FGTPAADPFQ RAQAGLEAL LAPGEGNASG NASERVLAAP SSELVDNTDI P YSKVIVTAVY LALFVVGTG NTVTFTLIR KKSLSLSQST VHYHLSLAL SDLLTLLIAM PVELYNFIWV HHPWAFGDAG CRGYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM SRRTKKFIS AIWLASALLT VPMLFTMGEQ NRSADGQHAG GLVCTPTIHT ATVKVVIQVN TFMSFIFPMV VISVLNTIIA NKLTVMVROA AEQGVCTVGV GEHSTFSMAI EPGRVQALRH GVRVLRAVVI AFVVCWLPYH VRRLMFCYIS DEQWTFELYD FYHYFYMVTN ALFVVSSTIN PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETTY</p> | Homo sapiens |
| 208 | 3452 | Opiate Receptor- Like 1 (OPRL1) | NM_000913 | <p>cctgctctgc accgtctgct gactgccagc cggctgaggg cgggggtctc caeagtggtc A ccagctccca aggaggttgc agaagtaccg tacagagtgg atttgcaggg cagtggcctg gagccccctc tccccggccc gttctgggag gttatctacg gcagccacct tcagggcaac ctgtccctcc tgagcccaa ccacagtctg ctgccccgc atctgtctct caatgccagc cacggcgctc tctgccccct cgggtcctcag gtcacatcg tggggctcta cctggccgtg tgtgtcggag ggctcctggg gaactgcctt gtcattgacg tcctcctcag gcacacaaa atgaagacag ccaccaatat ttacatcttt aacctggccc tggccgacac tctggtcctg ctgacgctgc ccttcagggg caggacatc ctctggggtc tctggccgtt- tgggaatgcg ctgtgcaaga cagtcattgc cattgactac tacaacatgt tcaccagcac ctccacctta actgccatga gtgtggatcg ctatgtagcc atctgccacc ccctcctgctg cctcgacgtc cgcacgtcca gaaaagccca ggtgttcaat gtggccatctt gggccctggc cctctgttgc ggtgttcccg ttgcccctat gggctcggca cagtcgaggt atgaagagat cagtggcctg gtggagatcc ctaccctca ggattactgg ggcctgctggt tggccatctg catcttctc ttctcttca tcgtccctgt gctcgtcctc tctgtctgtct acagcctcat gatccgctg ctcgtggag tccgctgct ctcgggctcc cgagagaagg accggaacct gcggcgcatc actcggctgg tgcgtgtggt agtggctgtg ttctgtgggt gctggacgcc tgtccaggtc ttcgtgctgg cccaagggt cgggggttcag ccgagcagcg agactgccgt ggcattctg cgcttctgca cggccctggg ctacgtcaac agctgctca acccatctt ctacgcttc ctggatgaga acttcaaggc ctgcttccgc agttctgtct gtgcatctgc cctggcccg gacgtgcagg tctctgaccg cgtgcgcagc attgcaagg acgtggccct ggcctgcaag acctctgaga cggtaacggc gcccgcatga ctaggcgtgg acctgcccc ggtgctgtc agccccgaga gcccatctac gcccacaca gactcacac aggtcactgc tctctaggcg gacacacct gggccctgag catccagagc ctggatggg ctttctcctg tgggccaggg atgctcgtgc ccagagagg accctagtac atctgggac aggtcaaaagc attagggcca cctccatggc ccagagacaga ctaaagctgc cctcctgggt caggcccgag gggacacaa gacctacctg gaagcagctg acatgctggt ggacggcctg tactggagcc cgtgccctc cctccccgtg cttcatgtga cctctggcct ctctgctgct gcgtggcag aacctgggt gggcaggcac ccggagagg agcagcagct gtgtacatct gtgccccca tgtgctgtgt gctgtttgca tggcagggtc ccagctgcct tcagccctgt gacgtctcct cagggcagct ggacaggctt ggcacggccc ggaagtgca gcaggcagct ttcttggg gtgggacttg</p> | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 209 | 3452 | Opiate Receptor- Like 1 (OPRL1) | NP_000904.1 | cactgcgggg gttg ccctgagctt ggagctgcca cctggaggac ttgctgttcc gactccacc tgtgcagccg gggccacccc aggagaaagt gtccaggtgg gggctggcag tccctggctg cagaccccca gctggccctc ggaccgcacc tctgaagtt ttctgtgtgc tgcacgtgtc aggcctcatc cctgactgca gcttgactct gggcccaacc cccatttccc ttcaggagac cagcgagagg ccctggccat ccctccagcg gtgcaatgaa ctatatgtcg tggaccgtca acccagccct gcttctcagt gtggggcagg tgtctcagga cgaaggacc gcgtgaccac atgggcagct ctgttcacaa agtggaggcc tcttttctct ggtcttgact gctctgttg ggtgggagaa gattctctgg ggttccccac atcttcccaa ggtctccctc acagctctc ctttgcctga agccagaggt cagtggccgt gctgtgttg ggggaagctg tgtggaagga gaagctgggtg gccacagcag agtctctgtc tggggacgcc tgcctcattt acaagcctca agatggctct gtgtagggcc tgaacttgcct gcccaacggg aggatggctt cacagcagag ccagcatgag gggtggggcc tggcagggct tgcttgagcc aaactgcaaa ggctgtgggtg gctgtgagga cactgcgggg gttg | Homo sapiens |
| 210 | 3513 | Ocular Albinism 1 (Nettleship- Falls) (OAL) | NM_000273 | atgacccagg caggccggcg gggctctggc acaccggagc cgcgtcccg c aacacagccc A atggcctccc cgcgcctagg gaccttctgc tgccccacgc gggacgcagc cagcgagctc gtgctgagct tccagccgcg ggccttccac gcgctctgcc tgggcagcgg cgggctccgc ttggcgctgg gccttctgca gctgctgcc ggcgcgcgc cgcgcggccc cgggtccccc gcgacgtccc cgcgcgcctc ggtccgcac cgtgcgcgtg cgcgtgcctg cgaccttctc ggctgcctgg gtatgtgtat ccggtccacc gtgtggttag gattcccaaa tttgtgtgac agcgtctcgg atatgaacca caccgaaatt tggcctgctg ctttctgcgt ggggagtgcg atgtggatcc agctgttcta cagtgcctgc tctgtgtggc tgttttgcta tgcagtggat gcttatctgg tgatccggag atcggcagga ctgagcacca tctgtctgta tcacatcatg gcgtggggcc tggccaccct gctctgttg gagggagccg ccatgctcta ctacccttcc gtgtccaggt gtgagcgggg cctggaccac gccatcccc actatgtcac catgtacctg ccctgctgc tggttctcgt ggcgaacccc atctgttcc aaaagacagt gactgcagtg gcctctttac ttaaaaggaag acaaggcatt tacacggaga acgagagag gatgggagcc gtgatcaaga tccgattttt caaatcatg ctggttttaa ttatttgtt gttgtcgaat atcatcaatg aaagcctttt atctatctt agatgcaaa cagatatcaa tggaggttct ttgaacactg tcagaactgc agccaagacc agatggttta ttatgggaat cctgaatcca gcccaggat ttctctgtc ttggccttc tacggcttga caggatgcag cctgggtttt cagttctcca ggaaggagat ccagtgggaa tcactgacca cctcggctgc tgaaggggct caccatccc cactgatgcc ccataaaaa cctgcttccg ggaaggtgtc tcaagtgggt gggcagactt ctgacgaagc cctgagcatg ctgtctgaag gttctgatgc cagcacaatt gaaattcaca ctgcaagtga atctgcaac aaaaatgagg gtgacctgc tctcccaacc | Homo sapiens |

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|-----|------|--|-------------|---|-----------------|
| 211 | 3513 | Ocular Albinism 1 (Nettleship- Falls) (OAL) | NP_000264.1 | catggagacc tatgaagggg atgtgctggg ggtccagacc ccatttctct cagactcaac aattctgtt ctttagaact gtgttctcac cttcccaaca ctgcactgcc gaagttagc 'ggccccc aaa ccttgctctc atccagact agagcttctt cccgaaggc ctttagata ggagaaaggg ttcatgcaca cacgtgtgag aatggagag cccctccag accactctac agctgctcta gccttagtg cactaggaa gttttcagag gctggctgta aagtaagtgt aaggtccaca tccctggga agtagtaaa taaaatagt atgactg aaggtccaca tccctggga agtagtaaa taaaatagt atgactg MTQAGRRGPG TPEPRPTQP MASPRLGTC CPTRDAATQL VLSFQRAFH ALCIGSGGLR P LAIGLLQLLP GRRPAGPGSP ATSPASVRI LRAAAACDLL GCLGMVIRST VWLGFNFVD SVSDMNHTEI WPAACVGS A MWIQLYSAC FWLFCYAVD AYLVIPRSAG LSTILYHIM AWGLATLLCV EGAAMLYPS VSRCEGLDH AIPHVTMYL PLLLVLVANP ILFQKTVTAV ASLLKGRQGI YTENERMGA VIKIRFFKIM LVLIICWLSN IINESLLFYL EMQTDINGGS LKPVRTAKT TWFMGILNP AQGFLLSLAF YGWTGCSLGF QSPRKEIQWE SLTTSAAEGA HPSPIMPHEN PASGKVSQVG GQTSDEALSM LSEGSDASTI EIHTASESCN KNEGDPALPT HGDL | Homo sapiens |
| 212 | 3544 | UDP-glucose Receptor (KIAA0001) | NM_014879 | gaacagtgtt acctggagc ctacaatgag aggtatttca aaatgagtga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acactgggc cacttcaaga cgacaaacgc tcaactggga aacaccttc actgaaaga gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagaatga tcaattcaac ctccacacag cctccagatg aatcctgctc tcagaaacctc ctgatactac agcagatcat tccctgtgctg tactgtatgg tcttcattgc gggaatccta ctcaatggag tgtcaggatg gatatctctt tactgtgccc gctctaagag tttcatcatc tatctcaaga acattgttat tgcctgacttt gtgatgagcc tgacttttcc tttcaagatc cttggtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgag ggctcttggc aggtattata aaattgtaaa gcctctttgg attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcctctttgg acttcttca tccagtcagt gagttaacgc aaactctgt cagtgatagt atggatgctc atgctcctcc ttgctgttcc aaatattatt ctccacaacc agagtgttag ggaggttaca caaatataat gtatagaact gaaaagtga ctgggacgga agtggcacaa agcatcaaac tacatcttgg tggccatctt ctggattgtg tttcttttgt taatcgtttt ctatactgct atcacaaaga aaacttttaa gtcccacctt aagtcacagtc ggaattccac ttcggtcaaa aagaaatcta gccgcaacat attcagcatc gtgtttgtgt ttttgcctg tttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcatta cagctgcccag tcaaaagaaa tcttgcggtat tatgaaagaa ttcactctgc tactatctgc tgcaaatgta tgcttggacc ctattattta tttctttcta tgccagccgt ttagggaaat cttatgttaag aaattgcaca ttcattataa agctcagaat gacctagaca tttccagaat caaaagagga aatacaacac ttgaaagcac agatactttg tgagtctcta cctcttcca aagaaagacc acgtgtgcat gtgttcactt tcaattacat aacgaaatc ataagatat gtgccctcat cataaatatc atctctagca ctgccatcca atttagttca ataaaattca aatataagtt tccatgcttt tttgtaacat caaagaaac ataccatca gtaatttctc taatactgac ctttctattc tctattaata aaaaattaat acatacaatt attcaattct attatattaa aataagttaa agtttataac cactagtctg gtcagttaat gtagaaattt aaatagtaaa taaaacacaa cataatcaaa gacaactcac tcaggtcatct tctttctcta aataccagaa | Homo sapiens |

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|-----|------|---------------------------------------|-------------|--|-----------------|
| 213 | 3544 | UDP-glucose Receptor (KIAA0001) | NP_055694.1 | MINSTSTQPP DESCSQNLII TQOIIPVLYC MVFIAGILIN GVSGWIFFYV PSSKSFIIYL P | Homo sapiens |
| 214 | 3582 | Oxytocin Receptor | NM_000916 | KNIVIADEFM SLTFPFKILG DSGLGPMQLN VFVCRVSAVL FYVMYVSIV FFGLISFDRI YKIVKPLWTS FIQSVSYSKL LSVIVWMLML LIAVPNIILT NQSVREVTQI KCIELKSELG RKWHKASNYI FVAIFWIVEL LLIVEYTAIT KKIFKSHLKS SRNSTSVKKK SSRNIFSIVF VFVFCFVPH IARIPYTKSQ TEAHYSCQSK EILRYMKFT ILLSAANVCL DPFIYFFLCQ PFREILCKKL HIPLKAQNDL DISRIKRGNT TLESTDTL tggttaaggct ctgggaccaa cgctggcgga accagctcgc ctcgggaggg gtctgcgag A ctggcctcgc cgcgcctca cgggacccgt gcgtagtgc agcctcagcc ccaggcacag cgccgcatcc agacgccgc cgcgcgcga gcctgggagg cgctcctgc tcgctcctg taccatcca gcgaccagcc agctgcggc gaggggattc caaccgaggc tccagtga gacctcagct tagcatcaca ttaggtgcag ccggcaggcc atcccaactc ggcccgagg cgcacgcgc actggggccg tcagtcgccg tgcaacttc ccggggggag tcaactttag gttcgcctgc ggaactcgtg cagtggaggc cgctgaacat ccgagggaac tggcacgctg ggggctctgg gcttgtggc ggtagaggat tcccgctcat ttgcagtggc tcagaggagg gtggaccag cagatccgc cgtggagtct ccaggagtgg agccccgggc gccctacac cctccgacac gccggatccg gccagccgc gccaaagcgt aaagggtcgc aaggccggg cgcacgcgt cgccagggt catggagggc gcgctgcag ccaactggag cgccaggga gccaacgcca gcgcgcgc ccgggggccc gagggcaacc gcaccgccc acccccggg cgcaacgagg cctggcgcg cgtggagggt gcggtgctgt gctcatcct gctcctggcg ctgagcggga acgctgtgt gctgctggc gcgcacca cagccagaa gcaactcgc ctcttctct tcatgaagca cctaagcgc gcgacctgg tggggcaggt gtttcagggtg ctgccgcagt tgctgtgga catcaccttc cgcttctac ggcccgacct gctgtgcgc ctggtcaagt acttgagggt ggtgggcatg ttcgctcca cctacctgct gctgctcatg tccctggacc gctgcctggc catctgccag ccgctgcgct cgccaccgac cgccggcag tgctgcccac gtggctcggc tgcctgggtg ccagcgcgc gcagggtgcac atcttctct tgcgcgagg gtgtgacggc gtcttcgact gctgggcccgt cttcatccag ccctggggac ccaaggccta catcacatgg atcacgtag ctgtctatat cgtgcgggtc | Homo sapiens |

atcgtgctcg ctacctgcta cggccttatac cggcagagcg agttcaaga tctggcagaa cttgcggctc
aagaccgctg cagcggcggc ggccgagctg cggcggctgg cagatggggg cgtatggggg
cgctggccc tggcgcgtgt cagcagcgtc aagctcatc ccaaggccaa gatccgcacg
gtcaagatga ctttcatcat cgtgctggcc ttcatcgtgt agcctcggc cttctcttc
gtcagatgt ggagcgtctg ggatgccaac gcgcccaag aagcctcggc cttcatcatc
gtcatgctcc tggccagcct caacagctgc tgcacacccct ggatctacat gctgttcaag
ggccacctct tccacgaact cgtgcagcgc ttccctgtgt gctccgccag ctacctgaag
ggcagacgc tgggagagac gagtccagc aaaaagaca actcgtctc ctttgcctg
agccatgca gctccagcca gaggagctgc tcccagcct cccggcgtg acccaccagc
caggccagg gctgcagcct gaggtcagg ctgtgctggc ataatgctc tgcctcctagg
tgatggcgta tgtttgtgta taaggtacct atcagtttgt atccctccc tccctggggg
ggcttcagt gggtggagag tggcctccat gatgggaag gataggggac tccagccatca
gacaacccc tggcctccta cactacttc taccacctg aaccactgc tgccttggc
agtgaaggc ttgttttttc tccctggact gtaatttcac tccagtatat ttttactct
tcattctgg atattgtgaa agcggtaaa tatagattg gtgaccaat gggtcaggaa
gtccagtgt ctggacttgg gtaagcagt ggggttggga cctcagatgg gaagggtgg
gctaagatcc tccctgacct aagtgatatt tgcctttaag cgaacaaatg ctggggtcct
tggggaccag cttgtcagag ggtagcccta agagaagggg attaccttgt aagaccatct
ggcgcagtgg acctattaga acttgggtta aaaatgttta agaagctaatt gtttaagaag
catttgggaa agaaaaagaa ataatgtat ccagatagga aaagaagaag taaactatt
tgcagatgac acagtttgt atatagaaa tcctaaggaa ctcacacaca cacacacaca
cacacacga cacagctatt agaactaata agcaagttcc gcaaggtttc agatataaag
atcaatatac aaaaatgaat tgtatttctt tatactagca acaacaata tgaacacgaa
gttaataat tccatttata ataccatcag aaagataaaa ataggaaatca acttaacaaa
acaagtgcaa gactgaaaac tacaaaattg gaaagaaatt aaagaaggct taaataaatg
gaaagacatc ctgtgttcat ggatcagact tagtattgtt aagatggcaa tactatccta
actgacatgc agattcagtg caatccttat gaaaatcata gctggctttt ttacagaaat
tgataagcta gtcccaaat tcataaagaa atgcaaggga cccagatatc caataagcc
ttgaaaaaga acaaaagtgg tggattcaca ctctcgtatt tcataatta cgataaagg
aatcagctca gtgtgttact ggtttaagga tagacatacg gagcagaata aagagtacag
atatgaacac ttatactac tttaacttga ggtcattga ttttcccaag caaatttcaat
agagaaaagga gagtctttc acaaatggc accgagcaa tgatatgcaa gtgcaaaaaga
atgaggttgg accttactc acactatgtg caaaatcaa ctcaaacgc atccaagatc
taaatataag agctgaact ataaatctt agaaagaaac ataggcatag atcttgttaa
ccttgaatta ggcagtgtt tcttagatat gatacaaaag acaagcaa ccaatggaaa
aataggtaaa ttggacttaa tcaagatttg aagcttttgt gattgaaaa accctatcaa
gaaggtgaaa agataacctg cagaatggga gaaaatttt gcgagtata tatatgataa
ggggtctgta tctggaatat ataaataact cttatacac aacataagg aaaaaataa
atcaatttaa aaaatgggt aacggtttga atagacattt ctcaaaagaa gatatgcaaa
tggctactaa gcacatgaaa aatactcaac attattattc attagggaaa tgcaagtcaa
aatcacaatg agattccagt ttacaatcac taggatggct acaataaaaa gatggacaag

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|-----|------|--|-------------|---|-----------------|
| 215 | 3582 | Oxytocin Receptor | NP_000907.1 | <p>aacgagtgct ggtgaggatg tagagaaact ggtagaaatt taaattgttg gtgggaatgt aaatggtgca cctgctttga aaacagttt ggcagtaact caaaaagtta aacgtagagt gaccatatga ccaggaatg ccactcctag gtatttacc aagagaaatg aaacgtaca tacacacaaa aacttgtaca ccaatgttca tagcaacatt atttgaata gccaaaaagt ggaacaacc caaatgtcta ccaactgatg aatgggaatc aaatgtgtg ctgtccacgc aatggaacat tattagactc taaaagaaa tgaagtaac acacatgcca caacatggat gagccttgaa aacttgctaa gtgaaagaa ccagtgcaa agcccacat attgtctgac tgcattgaaa tgcaatgtct aaatggacg aatctatata gagtgaatat agattagcgt ttgccaggcc ctggaggctg tgagagatga ggcatacta ctaagggtt ggggtttctt tttcgggtga tgaataatgt cgaataatgt ggtgattgtg cacgattttg agaattgact aaaaaccaat gaactttaaa aaataaaaat aaacaaa</p> | Homo sapiens |
| 216 | 3589 | Puriner- gic Receptor P2Y, G- protein coupled, 2 (P2RY2) | NM_002564 | <p>MEGALAANWS AEAANASAP PGAEGNRTAG PPRNEALAR VEVAVLCLIL ILALSGNACV P LLALRTTRQK HSRLEFFMKH LSIADLVAV FQVLPQLLMD ITFRFYGPDL LCRLVKYLQV VGMFASTYLL LMSLDRCIA ICQPLRSRR RQDLRLAVLT WLGLVASAP QVHIFSLREV ADGVFDCWAV FIQPWGPKAY ITWITLAVYI VPVIVLATCY GLISFKIWQN LRLKTAATAAA AEAPEGAAAG DGGRVALARV SSVKLISKAK IRTVKMTFII VLAIFVCWTP FFFVQMWVSW DANAPKEASA FIIVMLLASL NSCCNPWIYM LFTGHLFHEL VQRFLLCCSAS YLKGRRLLGET SASKSNSSS FVLSHRSSSQ RSCSQPSTA</p> | Homo sapiens |
| | | | | <p>cggcacgagg caccocgaga ggagaagcgc agcgagtgag cgagaggagc ccctgtgtggc A agcagcacta cgtcccaga aaatgctgg aggtgggagc tggcccccag cctggggacc tgtttttctt gttcccga gaattccctg cagcccgcgc caggtccagg cgtgtgcatt catgagtgag gaaccctgc agcgctgag catcctgacc tggagagcag gggctgtgca ggcgatggc agcagacctg gggccctgga atgacacat caatggcacc tgggatgggg atgagctggc ctacagtgct cgttcaacg aggaactcaa gtacgtgtg ctgctgtgtg cctacggcgt ggtgtgctg cttgggctgt gctgaacgc cgtggcgctc tacatcttct tgtgccgct caagacctg aatgcgtcca ccacatatat gtccacactg gctgtgtctg atgcaactga tgcggcctc ctgcccgtgc tggcttatta ctacgccgc ggcgaccact ggcccttcag caggtgtctc tgcaagctgg tgcacctgtg tctctacac aacctttact gcagcactct ctctctacc tgcacagcg tgcacccgtg tctggcgctc ttacgacctc tgccctccct gcgtggggc cgggcccgct acgtcgccg ggtggccgg gccgtgtggg tgttggtgtc ggcctgccag gcccctgtgc tctactttgt caccaccag cgcgcgggg gccgcgtaac ctgccacgac acctcgacac cagagctctt cagccgcttc gtggcctaca gctcagtcac gctgggctg ctcttcgctg tgccttttgc cgtcactcct gctgtttacg tgtctatggc tgcgcgactc ctaaaagcag cctacgggac ctcggcgccg ctccttaggg ccaagcgcaa gtcgtgtgc acctatgcgc tgggtgtgct tgtcttgcgc ctcgtcttcc tgccattcca cgtcacccgc acctctact actccttccg ctcgctggac ctcagctgcc acacctcaa cgcactaac atggcctaca aggttacctg gccgctggcc agtgctaaca gttgccctga cccgtgtctc tacttctgg ctgggcagag gctcgtacgc ttgcccagag atgccaaagc acctactgg ccagccctg ccaccccgcc tcgcccagc cttgggctgc gcagatccga cagaactgac atgcagagga taggagatgt gttggggcagc agtgaggact tcaggcggac agagtccacg ccggtgtgta gcgagaacac taaggacatt cggctgtagg</p> | |

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|-----|------|--|-------------|---|-----------------|
| 217 | 3589 | Purinerigic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2) | NP_002555.1 | <p>agcagaacac ttcagccctgt gcaggtttat attgggaagc tgtagaggac caggacttgt gcagacgcca cagtcctccc agataggac catcagtgac tcatgtgga tgaccccatg ctccgtcatt tgacagggc tcaggatat cctctgttg tccagagtca actgttccca taacccctag tcatggtttg tgtgtataag ttgggggaat taagtttcaa gaaggcaag agctcaaggt caatgacacc cctggcctga ctcccatgca agtagctggc tgtactgcca aggtaccctag gttggagtcc agcctaatac agtcaaatgg agaaacaggc ccagagagga aggtggctta ccaagatcac ataccagagt ctggagctga gctacctggg gtgggggcca agtcacaggt tggccagaaa accctggttaa gtaatgaggg ctgagtttg acagtggctt ggaatggact ggtggccacg gtggacttag ctctgaggag taccaccagc ccaagagatg aacatctggg gactaatatc atagacctat ctggaggctc ccatgggcta ggagcagtgt gaggctgtaa cttatactaa aggttgtgtt gctgtgttaa aaaaa MAADLGPWND TINGTWDGDE LGYRCFNEF FKYVLLPVSY GVCVLGLCL NAVALYIFLC P RLKTNASTT YMFHLAVSDA LYAASLPLLV YYARGDHWP FSTVLCKLVR FLFYTNLYCS ILFLTCISVH RCLGLRLPLR SLRWGRARYA RRVAGAVWL VLACQAPVLY FVTSARGGR VTCHDTSAPF LFSREYAYSS VMLGLLFAVP FAVILVCYVL MARRLLKPAY GTSGGLPRAK RKSVRTIAVW LAVFALCELP FHVTRTLIYS FRSLDLSCHT LNAINMAYKV TRPLASANSC LDPVLYFLAG QRLVRFARDA KPPTGPSPAT PARRRLGLRR SDRIDMQRIG DVLGSSEDFR RTESTPAGSE NTKDIRL</p> | Homo sapiens |
| 218 | 3595 | Purinerigic Receptor P2Y ₁ | NM_002563 | <p>ccccctccg cggggatcca gttgcctgc tccctccgc tccctggctt tccgatgtc A tgtgcgccc ctggcgcgcg ctgcctctc gccctctct accctcggg gccgcgcct aagtcgagga ggagagaatg accgaggtgc tgtggccggc tgtccccaac gggacggagc ctgccttcc tggcggctccg ggtctgtcct gggggaacag cagggtcgcc tccactgcc ccgtctctc gtcgttcaaa tgcgcttga ccaagacggg ctccagttt tactacctc cggctgtcta catcttgta ttcactcatg gcttccctgg caacagcgtg gccatctgga tgttcgtctt ccacatgaag cctggagcg gcactctcct gtacatgttc aattggctc tgcccgactt cttgtactgt ctgactctgc cagcctctgt cttctactac tcaataaaa cagactggat ctccgggat gccatgtgta aactgcagag gttcatcttt catgtgaacc tctatggcag catcttgitt ctgacatgca tcaatgcca cgggtacagc ggtgtggtgt accctccaa gtccctgggc cggctcaaaa agagaatgc gatctgtatc agcgtgctgg tgtggctcat tgtggtggtg gcatctccc caatctctt ctactcaggt accggggtcc gcaaaacaa aaccatcac tgttacgaca ccacctcaga cgagtacctg cgaagtatt tcatctacag catgtgcacg accgtggcca tgttctgtgt cccctgggtg ctgattcttg gctgttacgg attaatgtg agagctttga tttaaaaaa tctggacaa tctcctctga ggagaaaatc gatctacctg gtaatcattg gggcccggtg tgattttcag accccagcaa cttcccatgt gatgaaacg atgaacttga cgtatcaggt gacaagaggt ctgcaagatc tgtgtgcttt caatgacag gtttatgcca cgtatgccc tcttggcggg agatactttc agaagagac tcaacagttg tgtggacccc attctctatt tcttggcggg agatctttc agaaagagc tctcccgagc cacaaggaaa gcttctagaa gaagtgggc aaatttgcaa tccaagagtg aagacatgac cctcaatatt ttacctgagt tcaagcagaa tggagatata agcctgtgaa ggcacaagaa tctccaaa cctctctgtt gtaatatggt aggatgctta acagaaatcaa gtacttttcc cctctttaac ttctagtgtt agaaaaaat caaaccaga aaatagttag</p> | Homo sapiens |

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|-----|------|--------------------------------|-------------|--|-----------------|
| 219 | 3595 | Purinergic Receptor P2Y1 | NP_002554.1 | <p> ttaaaaaaat aatagaagta gaaatgccca catccacact tagcttggtt gggttgctt tcacagtctc tcttcctct gactagaagt atgtataata aaacaatact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcttt tctgttttaa gtgtgtgtgc acatgagtac tggggctgtt tttgatatta gtaatttctc taagaaaaact agccccctgc aacttgagtt tgtggtttat ctagccttta ttgtttttt aaatccaca gtaggataa aaaaactata tctcagaaa tatctagcat ggtataaac aaacactaa actcatcagt tcacccgca tcagatcaat ggtctctga gcggggtgtt ttttccagt tcttataagc atagatgata gttgactgag tttcttttag gcatgataa gacaagtaaa gctaataaat ttaaaagcct gaaaagtgtat tgtttccag ttatttctgg aaaaggtctc attatatatt ggggtctaaa tgtttgatgg gaaaagcctg catatattat cgtactggtt aaatgcattc aaaaataatta agtgcagtat atttctctg taaacacact gagctctctt agacatcttg tgataaagag catttacttg cccactgct gtgcaatgcc ttaggacttt gtttggttc caggacaagt gttcactcac atctgtaaaa acaattttta gaattgcaaa taaattacag accaaagatt gactaaagtc aaataactgt tagtaagtgt aaggatattg gacaggagga cagtatttca gaaaaggaga ggttgacagt catccacaag gcatagcctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacatt tagaatgagg gcctttagtt taaattaaag tcatggtgga gaagactctt gctccacca agtgttgaa aacacaaaat acgatataaa aaaaaaaa aaaa acgatataaa aaaaaaaa aaaa MTEVLPAPV NGTDAFLAG PGSSWGNSTV ASTAAVSSSF KCALTKTGFQ FYLPAVYIL P VFIIIGLGN VAIWMFVFM KPWSGISVYM FNLAFLIFY YFNKTDWIFG DAMCKLQRFI FHCISAHRY SGVYPLKSL GRKKKNAIC ISVLVWLIVV VAISPILFYS GTVVRNKTI TCYDTSDEY LRSYFIYSMC TVAMFCVPL VILIGCYGLI VRALIYKDL NSPLRRKSIY IIVIILTVEA VSYIPFHV MK TMNLRARLDF QTPAMCAFND RVYATYQVTR GLASLNSCVD PIIYFLAGDT FRRRLSRATR KASRRSEANL QSKSEDMTLN ILPEFKQNGD TSL </p> | Homo sapiens |
| 220 | 3596 | Purinergic Receptor P2Y5 | NM_005767 | <p> ctgatgaaag tgcttccaaa ctgaaaaattg gactgctctt tacgatggta agcgtaaaca A gctcccactg cttctataat gactccttta agtacacttt gtatgggtgc atgttcagca tgggtgtttgt gcttggtgta gbatccaatt gtgttgccat atacattttc atctgcgtcc tcaaaagtccg aaatgaaact acaacttaca tgattaaact ggcaattgtc gacttgcttt ttgtttttac ttacccttc aggtattttt acttcacaac acggaattgg ccatttggag atttactttg taagatttct gtgatgctgt ttataccaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccattt aagtcacaga ctctaagaac caaaagaaat gcaaagattg ttgacactg cgtgtgggta actgtgatcg gaggaagtgc accgcctgtt ttgttcagt ctaccactc tcagggtaac aatgcctcag aagcctgctt tgaataattt ccagaagcca ctctaattt aaatgtaact tgttctagta ttttcatcga aatagtggga ttttttattc ctgtaattt aaatgtaact tgttctagta tgggtgctaaa aactttaacc aaaccagttt cattaaagtag aagcaaaaata aacaaaacta aggtttttaa aatgattttt gtacatttga tcatattctg ttctgtttt gttccttaca atatcaatct tattttatat tctcttgta gaacacaaac atttgtaaat tgcacagtag tggcagcagt aaggacaatg taccacatca ctctctgtat tgctgtttcc aactgttgtt ttgaccctat agtttactac ttacatcgg acacaattca gaattcaata aaaaataaaa </p> | Homo sapiens |

Homo sapiens

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|-----|------|---|-------------|--|-----------------|
| 223 | 3597 | Purinergic Receptor P2Y6 | NP_004145.1 | MEWDNGTGA LGLPPTTCVY RENFKQLLLP PVYSAVLAAG LPLNICVITQ ICTSRRALTR P TAVYTLNLAL ADLLYACSLP LLIYNAQGD HWPFGDPACR LVRFLFYANL HGSILFLTCTI SFQRYLGICH PLAPWHKRG RRAAWLVCA VWLAVTTQCL PTAIFAATGI QNRRTVCYDL SPPALATHYM PYGMALTIG FLIPFAALLA CYCLLACRLC RQDGPAPVA QERRGKAARM AWVAAAEFAI SFLPFHITKT AYLAVRSTPG VPCTVLEAFA AAYKGRPEFA SANSVLDPII FYFTQKKFRR RPHELLQKLT AKWQRQGR | Homo sapiens |
| 224 | 3599 | G Protein- Coupled Receptor 23 (GPR23) | NM_005296 | cctaccggtc catagatgtca gagtgtgaa cccctgcagc cagcaggcct cctgaaaaa A aagtccatgg tggcagaag attcattgac ttccaattcc aagattcaaa ttcaagccctc agacccagg tgggcaatg tactccaat aatacttga ttgttgatga ttccttcaag tataatctca atggtgtgtg ctacagtgt gtattcatct tgggtctgat aaccaacagt gtctctctgt ttgtctctgt ttccgcagtg aaatgagaa gtgagactgc tatttttctc accaatctag ctgtctctga ttgtctttt gtctgtacac taccttttaa aatattttac aacttcaacc gccactggcc ttgtgtgac accctctgca agatctctgg aactgcattc cttaccaca tctatgggag catgctcttt ctacactgta ttagtgtgga tctgttccctg gccattgtct atccttttgc atctctgact attaggacta ggaggaaatc tgccattgtg tgtgtgtgtg tctggatcct agtctcagc ggcgtgattt cagcctcttt gtttccacc actaatgtca acaatgcaac caccactgc ttggaaggct tctccaaaog tgtctggaag acttatttat ccaagatcac aatattttat gaagtgtgtg ggtttatcat tctcttaata ttgaatgtct ctgtctcttc ttgtgtgtg agaactcttc gcaagcctgc tactctgtct caaatgtgga ccaataagaa aaaagtactg aaaactcttc cagtacatat ggcagtcttt gtggtatgct ttgtacccta caactctgtc ctcttcttgt atgcccctgt ggcctcccaa gctattacta attgcttttt ggaagattt gcaagatca tgtacccaat caccttgtgc cttgcaactc tgaactgttg ttgtgacct ttcatctatt acttaccct tgaatccttt cagaagtctt tctacatcaa tgcacacatc agaatggagt ccctgtttta gactgaaaca cctttgacca caaagccttc ccttccagct attcaagagg aagttagtga tcaaaaca aataatggtg tgaatataat gctagaatcc accttttagg tatgagaaat gtgttcaggt ccagatatgg ttctctctat aattttctat atgctataaa ctaaaagatt gaagctaatg atactgagaa taatgcacca aatccagtca gatacatttg ttggaaggta tactgtagag tttttattgc tgttttgttc agtaattata ggtcaaatct aattacaaca accaagatgg attgccaaac tcttctgctt ggttggaaat tcatgtatc gcattatcca ggtggctagt ggcatttgat aatatagaga tgactttgaa actttcaaaa aggtatttct attccaatga tatttggtaa ttagggttggg cctataaata tagaacaatt tcagggaattt ttaaaaaatt gtgttactac tgatatatgc tagttttatt ttattttttt ggactgtcat tgagtttatt ttagcacaaag aatatattta gcctaacatt attaaaga aatgtgtcaa atttttaaca ttggtaaaa atgttatgtg cattttgaaa acagaaaaa aatgctgtg gcattgtacgt gggtgggaag aaaaagaaa ttaacaggat ttacacaatt ataatacca gcagtgtgag tttaaaaaac ttcgtgtgtt ttacaccaa ttaaaatttt catgtcaaac ttcaagcca gaaagctgct aaatcgtgt ctggcaggta aaagctgga aattacttaa aacaggaaaag tgtcaataaa aaactttgag caacaccaac atattttttc ttaaaatgtc acgttatctt cattttggga aactagggtc tataaaatat ttatctctcc tgttatactt tggagcacag cacagccaga aaggggctgc atttgtgcc aggtcaggag caaatgaaa aaaaaataa | Homo sapiens |

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|-----|------|---|-------------|--|
| 225 | 3599 | G Protein- Coupled Receptor 23 (GPR23) | NP_005287.1 | agtaatacta aaaaatcaaa ctataaacc aaacattta ttaaaacctg aattaatcct ttttggagg aggagtagag atataaacc tgaataact tattcttct tatcgaattt tggagcctaa ttagccagg agctgctgaa tttgtgccc tggattggaa ccaataaaa aaaaaaaaa aaatttcct MGDRRFIDFQ FQDSNSSLRP RLGNATANNT CIVDDSKYN LNAVYSWVF ILGLTNSVS P LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPFKIFYNF NRHWPFGDTL CKISGTAFLT sapiens NIYGSMFLT CISVDRFLAI VYFERSRTIR TRRNAIVCA GVWILVSGG ISALFSTTN VNNATTTCFE GFSKRWKTY LSKITIFIEV VGFIPIILN VSCSSVVLRT LRKPATLSQI GTNKKKVLKM ITVHMAVFV CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITICLA TLNCCFDPEI YYFTLESEQK SFYINAHIRM ESLFKTETPL TTKPSLPAIQ EEVSDQTNN GGELMLESTF |
| 226 | 3638 | Parathyroid Hormone Receptor 2 (PTH2) | NM_005048 | ggccgggtggc ccgggcccga ccacccagc tgcgcgctcgt tactggccac aagtttgctc A tgggcccagc aagttggcaa ctgggaagct tctccgggc tctggaggag ggtccctgct tcttctcata gccgttccgg gcattggccgg gctgggggagc tgcctccacg tctgggggtg gctaattgctc ggcagctgcc tcttgccag agcccagctg gattctgatg gcaccattac tatagaggag cagattgtcc ttgtgctgaa agcgaagta caatgtgaac tcaacatcac agctcaactc caggaggag aggttaattg tttccctgaa tgggatggac tcaattgtg gccagagga acagtggga aaatatcggc tgttccatgc cctccttata tttatgactt caaccataaa ggagtgtgctt tccgacactg taacccaat ggaacatggg attttatgca cagcttaaat aaaaatggg ccaattattc agactgcctt cgtttctgc agcagatat cagcatagga aagcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc catctctttt ggttccctgg ctgtggctat tctcatcatt ggttacttca gacgattgca ttgcactagg aactatatcc acatgcactt atttgtgctt ttcattgctg gagctacaag catctttgtc aaagacagag tagtccatgc tcaatagga gtaaggagc tggagtccct aataatgcag gatgaccac aaaaattccat tgaggcaact tcttgggaca aatcacaata tatcgggtgc aagattgtg ttgtgatgtt tatttacttc ctggctacaa attattattg gatcctggtg gaaggtctct acctgcataa tctcatcttt gtggctttct tttcgggacac caaatacctg tggggcttca tcttgatagg ctgggggttt ccagcagcat ttgttgacg atgggctgtg gcacgagcaa ctctggctga tgcgaggtgc tgggaactta gtgtggaga catcaagtgg attatcaag caccgatctt agcagctatt gggctgaatt ttattctgtt tctgaatacg gttagagttc tagctacaa aatctgggag accaatggag ttgggcatga cacaagggaag caatacagga aactggccaa atcgacactg gtcctggtcc tagtctttg agtgcattac atcgtgttctg tatgcctgcc tcaactcttc actgggctcg ggtgggagat ccgcatgcac tgtgagctct tcttcaactc ctttcagggt ttctttgtgt ctatcatcta ctgctactgc aatggagagg ttcaggcaga ggtgagaag atgtggagtc ggtggaatct ctcgtggac tggaaaagga caccgcatg tgggagccg agatgctgct cagtgcctcac caccgtgac cacagcacca gcagccagtc acaggtggcg gccagcacac gcatgggtgct tatctctggc aaagtgcga agatgccag cagacagcct gacagccaca tcaactttacc tggctatgct tggagttaact cagagcagga ctgctctcca cactcttcc acgaggagac caagggaagat agtgggaggc agggagatga tattctaag gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca agggagaaact gaggatgttc tctgaatgga |

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|-----|------|--|-------------|--|--------------|
| 227 | 3638 | Parathyroid Hormone Receptor 2 (PTHr2) | NP_005039.1 | <p> catttggtgc tgacttttcat gggctggtcc aatggctggt tggtgagag ggttggtg atactcctat gcttgagttc aaaggctgaa aattcagtta aggtgttact taataatagt tttaggtc catgaattgg ctctgtgaaa tactaacgac atgaaatgc aagtgtcaat ggagtagttt attaccttct attggcatca agttttcttc taaattaatg tatggtattt gctctgtgat ttttcatttt ttctgtctac ttttgggtag aaaaaagatt caattgcttg gctgtagctt tctctcatat ataccacct aatataatg aagatctttt agtgtgtatc attttcttt tagaaactag tattctctta ttcttactt taatgtactt ctatcactgc atattatttg cctgtgcata ggagcaatta aatataatg aatataatg gaagataaaa gatctaaaga caagtacttg ctggaattt agttggctgg acattgataa aataatgcat ttataacaat tacatgtgtt ttgggaaca aggaattt ctcaaaaag aatatttcac acatcccttc ttttgaatgg cctctttgtg accagccaga cctcaggtct tcactctttc ttctttgtaa accatgtcat gtggaagat ttctcagtt agtgagcttg tgtctgcaaa ttgattttgt ttgtaatgta ttgtgatgc aatcatgct gcatctatat ctttttcttg tttgagctgt tactacattg tacatggcat gtgggatcaa ttaaaaattt gtttataaaa t </p> | Homo sapiens |
| 228 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | NM_000316 | <p> GNCPEWDGL ICWPRGTGK ISAVPCPYI YDFNHKGVAF RHCNPNGTWD FMHSLNKTWA NYSDCLEFLQ PDISIGKQEF FERLYVMYTV GYSISFGSLA VAILIIGYFR RLHCTRNYYH MHLFVSEMLR ATSIFVKDRV VHAHIGVKEL ESLIMQDDPQ NSIEATSVDK SQYIGCKIAV VMFIYFLATN YWILVEGLY LHNLIFAFF SDTKYLMGFI LIGWFFPAF VAAWAVARAT LADARCWELS AGDIKIYQA PILAAIGLNF ILFLNTRVL ATKIWETNAV GHDRKQYRK LAKSTLVLVL VFGVHYIVFV CLPHSFTGLG FEIRMHCELF FNSFQGFVS IICYCNGEV QAEVKKMSR WNLSDVWKRT PPCGSRRCGS VLTVTHTSTS SQSQVAASR MVLISGKAAK IASRQPDISHI TLPGYVWSNS EQDCLPHSEH EETKEDSGRQ GDDILMEKPS RPMESNPDTE GCQGETEDVL cggagggacg cggccctagg cgggtggcgt ggggaccgcc cggatcgac cgggcctggc gctcctgctc tgctgccccg tgctcagctc cgcgtacgcg ctggtggatg cagatgacgt catgactaaa gaggaacaga tcttctgct gcaccgtgct caggcccatg gcgaaaaacg gctcaaggag gtcctgcaga ggcagccag cataatggaa tcagacaagg gatggacatc tgctccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct accctgagtc tgaggaggac aaggaggcac ccactggcag caggtaccga gggcgccccct gctgcccga atgggaccac atcctgtgct ggcgctggg ggcaccaggt gaggtggtgg ctgtgccccg tccggactac atttatgact tcaatcaca aggccatgcc taccgacgt gtgaccgcaa tggcagctgg gagctgtgc ctgggacaaa caggacgtgg gccaaactaca gcgagtgtgt caaatcttc accaatgaga ctctggaacg ggaggtgttt gaccgctgg gcatgattta caccgtgggc tactcctgtt ccttgccgtc cctcaccgt cctgtgctca tcttgcccta ctttaggcgg ctgcactgca cgcgcaacta catccacatg cacctgttcc tgtccttcat gctgcgcgcc gtgagcatct tctgcaagg cgtgtgtgct tactctggcg ccacgcttga tgaggctgag cgcctcacg aggagagct gcgcgccatc gccaggcgc ccccgccgc tgccaccgc gctgcggct acgcgggctg cagggtggct gtgaccttct tcttttactt cctggccacc aactactact gattctggt ggaggggctg tacttgaca gcctcatctt </p> | Homo sapiens |

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|-----|------|---|-------------|---|-----------------|
| 229 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | NP_000307.1 | <p>catggccttc ttctcagaga agaagtacct gtggggcttc acagtcttcg gctggggtct gocgctgtc ttctgtgctg tgtgggtcag tgtcagagct accctggcca acaccgggtg ctgggacttg agtcgcgga aaaaaagtg gatcaccag gtcccacatc ttgctccat tgtgtcaac ttcatcctct tcatcaatat cgtccgggtg ctgcccacca agtcgaggga gaccaacgcc ggccggtgtg acacacggca cagttacggg aagctgctca aatccacgct ggtgtcatg cccctctttg ggtccacta catgtcttc atggccacac catacaccga ggtctcagg agctctggc aagtcagat gcaactagat atgtcttca actccttcca gggattttt gtcgcaatca tatactgtt ctgcaatggc gaggtacaag ctgagatcaa gaaatcttg agcgtgga cactggcact ggactcaag cgaaggcac gcaggggag cagcagctat agctacggc ccatggtgtc ccacaaagt gtgaccaatg tcggccccc tgtgggact ggctgccc tcagccccc cctactgccc actgcccaca ccaacggcca ccctcagct cctggccatg ccaagccagg gacccagcc ctgggaccc tcgagaccac accactgcc atggtgtc ccaaggacga tgggttctc aacgctcct gctcaggcct ggacgaggag gcctctggc ctgagcggc acctgcctg ctacaggaa agtgggagac agtcatgtga ccaggcgtg gggcgtgac ctgctgacat agtggatgga cagatggacc aaaagatgg tgggtgaatg atttccact cagggcctgg ggcgaaggg aaaaacaggg aaaaaagaa aaaaaaaga aaaagaa</p> | Homo sapiens |
| 230 | 3732 | PACAP Receptor Type 1 | NM_001118 | <p>gccaagaga cacatbgggg ctgacctgc cgtgtgtca gtggaggcc agtgggtctg A gccaagaagt gtcatggctg gtgtcgtgca cgtttccctg gctgtcact gggggcctg tccgtggggc cggggcagac tccgcaagg acggcagcc tgcaagtccg cggcccagag acacattggg gctgacctgc cgtgctgtc agtggaggc cagtgtgtct ggccaagaag tgtcatggct ggtgtcgtg acgttccct gctgtctc ctctgtctg ctatggccc tgccatgcat tctgactgca tctcaagaa ggagcaagc atgtgcttg agaagatcca gagggccaat gagctgatgg gcttcaatga ttccttcca gctgtctctg ggatgtggga caacatcacg tgttgaagc cggccatgt gctgtgagat gctgtgtca gctgcccga gctcttccga atcttcaacc cagaccaagt ctggagacc gaaacattg gagagtctga ttttgtgac agtaactcct tagatctctc agactgga ggggtgagcc ggaactgcac ggaggatggc tggctggaac ccttccctca ttaacttgat gctgtgggt ttgatgaata tgaatctgag actggggacc aggattatta ctactgtca gtgaaggccc tctacacggt tggctacagc acatccctg tcacctcac cactgccatg gtcaccttt gctgcttccg gaagctgcac tgcacacgca acttcatcca catgaacctg tttgtgtcgt tcatgtgag</p> | Homo sapiens |

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|-----|------|-----------------------------|-------------|---|-----------------|
| 231 | 3732 | PACAP Receptor Type 1 | NP_001109.1 | <p> ggcgatctcc gtcttcatca aagactggat tctgtatgag gagcaggaga gcaaccactg cttcatctcc actgtggaat gtaaggccgt catggttttc ttccactact gtgtgtgtgc caactacttc tggctgttca tcyaggccct gtacctcttc actctgtgg tggagacctt cttccctgaa aggagatact tctactggta caccatcatt ggctggggga ccccaactgt gtgtgtgaca gtgtgggcta cgctgagact ctactttgat gacacaggct gctgggatat gaatgacagc acagctctgt ggtgggtgat caaaggccct gtggttggct ctatcatggt taactttgtg cttttttattg gcattatcgt caccctgttg cagaaacttc agtctccaga catgggaggc aatgagtcca gcattactt gcactggcc cggctccacc tgcgtctcat cccactattc ggaatccact acacagtatt tgccttctcc ccagagaatg tcagcaaaag ggaagactc gtgtttgagc tggggctggg ctctctccag ggctttgtgg tggctgttct ctactgtttt ctgaatgggtg aggtacaagc ggagatcaag cgaaaatggc gaagctggaa ggtgaaccgt tacttcgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg ggtgaatggg ggcaccacgc tctccatcct gagcaagagc agtcccaaa tccgcatgtc tggcctccct gctgacaatc tggccacctg agccatgtc cctt </p> | Homo sapiens |
| 232 | 3844 | Apelin Receptor | NM_005161 | <p> atggaggaag gtggtgattt tgacaactac tatggggcag acaaccagtc tgagtgtgag A tacacagact ggaatctctc gggggccctc atccctgcca tctacatgtt ggtcttcttc ctggggacca cgggaaacgg tctgtgtgctc tggaccgtgt ttcggagcag cggggagaag aggcgctcag ctgatatctt cattgctagc ctggcggtgg ctgacctgac cttcgtgggtg acgctgccc tgtgggctac ctacacgtac cgggactatg actggccctt tgggaccttc ttctgcaagc teagcagcta cctcatcttc gtcaacatgt agccacagct tttctgcctc acggcctca gcttcgaccg ctacctggcc atcgtgagcc cagtggccaa tgcctcggctg aggctgcggg teagcggggc cgtggccacg cgagttcttt ggtgctggc cgcctcctg gcatgacctg teatggtgtt acgcaccac ggggacttgg agaaccacac taagggtgacg tgetacatgg actactccat ggtggccact gtgagctcag agtgggctgg ggaagtgggc cttgggtct cgtccaccac cgtgggcttt gtggtgacct teaccatcat gctgacctgt tacttcttca tgcaccaaac catcgtggc cacttccgca aggaacgcat cgaaggcctg cgggaagggc gccggtgctg cagcatcacc gtggtgctgg tggtagctt tgcctgtgtg tggtagccct accacctggt gaagacgtg tacatgctgg gtagctgtt gactggccc tgtactttg acctcttct catgaacatc ttccctact gacctgcat cagctacgtc aacagctgcc tcaacctt cctctatgcc tttttgacc ccgcttccg ccaggcctgc acctccatgc tctgtgtgg ccagagcagg tggcaggaca cctccacag cagcagtggg gagaagtcag ccaqtactc ttcggggcac agccaggggc ccggcccaaa catgggcaag </p> | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 233 | 3844 | Apelin Receptor | NP_005152.1 | <p>ggtggagaac agatgcacga gaaatccatc ccctacagcc aggagaccct tgtggttgac tag</p> <p>MEEGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TPLWATYTY RDYDWPGTF FCKLSSYLIF VNMVASVFCL TGLSFDRYLA IVRPVANARL RLRVSGAVAT AVLWLAALL AMPVMVLRTT GDLENTTKVQ CYMDYSMVAT VSSEAWVEVG LGVSSITVGF VVPTIMLTC YFFIAQTIAG HFRKERIEGL RKRRRLLSII VLVVTFALC WMPYHLVKTL YMLGSLHWP CDFDLFIMNI FPYCTCISYV NSCLNPFLLYA FFDPRFRQAC TSMMLCCGQSR CAGTSHSSG EKSASYSSGH SQGPENMGK GGEQMHEKSI PYSQETLVVD</p> | Homo sapiens |
| 234 | 3845 | Chemokine- Like Receptor 1 (CMKLR1) | NM_004072 | <p>gaattcggca cgaagtcagg ggcagcggcc ggccggccagc agggagctca ggacagagca A ggctccctgg cgaagcctccg ggtgatagg ggtgtccagc tgcggcgctc tggggggttca gagggggatc ttgaatgaac aaatgaatga actgctttct gggcaaacacg ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctcccaac agcctcgagt ggcctgcagt cacaggggaac cctcaggaag accttccggg cagagaccag agggaaagccc atctctccag cagaactgct tggattttc taccagaggg ctcaggggctc tgcacaatg atagcagaag ctgatggcat ctgagatctt aggtgggac tagcacagca tcaattctac cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata gagtcacatt ctgatggga ggctgacat agaattggagg atgaagatta caacacttcc atcaggtacg gtgatgaata cctgattat ttgactccca ttgtggtttt ggaggactta tcccccttgg aagccagggt gaccaggatc ttctgtgtgg tgggtctacag catcgtctgc ttcctcggga ttctgggcaa tggctgtgtg atcatcattg ccacttcaa gatgaagaag acagtgaaca tggctgtgtt cctcaacctg cagtgggcag atttctgtt caactgttc ctcccaatcc atatcaccta tgcggccatg gactaccat ggtttttcgg gacagccatg tgcaagatca gcaacttctt tctcatccac aacatgttca ccagcgtctt cctgctgacc atcatcagct ctgaccgctg catctctgtg ctctccctg tctggtccca gaaccaccgc agcgttcgcc tggcttacct ggcctgcag gtcatctggg tctgtgcttt ctcttgagt tccccatctc tctgtctccg ggacacagcc aacctgcagtg gaaaaatata ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tctgtgccc ctactccca aatggaccct gtggggtata gccggcacat ggtggtgact gtcacccgct tctctgtgg ctctctggtc ccagtcctca tcatcacagc ttgtacctc acctcgtgt gcaaaactgca gcgcaaccgc ctggccaaga ccaagaagcc actcaacctc ctgagctcc accacactgc catgctggc tctgtcttca gctggggttt gccctggcc actgcccctg ccattgcaa cagctgcag aaccacatc tgtatgtttt catgggtcag gacttcaaga agttcaaggt ggccctcttc tctcgcctgg tcaatgctct aagtgaagat cagggtccat ctctctacc cagccataga agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaaccttca atggactctc tcaaccagg gacaccaag gatagtctt ctgaagatca agccaagaac ctcttagca tccaccaatt ttcaactgcat tttgcaatgg atgaacagtg ttttatgctg ggaatctagg gcttggaaac cctttcttct agtggacaga acatgctgtg ttccatacag ccttggacta gcaatttatg ctctcttgga ggccagcctt gactgactca aagcaaaaaa ggaagaattc</p> | Homo sapiens |

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|-----|------|--|-------------|---|---|---|--|-----------------|
| 235 | 3845 | Chemokine- Like Receptor 1 (CMKLR1) | NP_004063.1 | MEDEDYNTSI IIATFFMKKT MFTSVLLTI LHGKISCENN IVCKLQNRNL ALAIANSNMN TSMNERETGM L | SYGDEYPDYL VNMVFNLA ISSDRICISVL FSLSTPGSSS ARTKKPFKII PILYVFMGQD KFKFKVALES RLVNALSEDT | PLEARVTRIF PIHITYAAMD VRLAYMACMV GYSRRHMVTV WCPYHTLNL ELHHTAMPGS GHSYPYSHRS FTKMSSMNER | LVVVYSIVCF YHVFVGAMC IWLVAFFLSS TRFLCGFLVP VLIITACYLT VFSLGLPLAT FTKMSSMNER | Homo sapiens |
| 236 | 3846 | Sphingolipid Receptor Edg1 | NM_001400 | gtcgggggga cttcgcccgt cacaaaaagc cgccctctag accatggggc gtcaactatg gacaaggaga atcctggaga atgtactatt gctaacctgc cggaaggga attgagcgt ctctcctgc ctctcctgc atgggctgga aagcactata ctgtactgca aacatttcca atcgtcctga gtgggtgca gctgtgctca cgggccttca ttcaagcgac caccgccaga tcttcttctt ccaccccgat caagccagag tagagttagt tatatatctt agctcctaaa tctttgtctg gtgtgcaactt ttcatacccc ctgggggtgtg tgggaagatg | gcgaagcgag gtcgcggttt catcgaaacca gagtagcgcc cccgctggtc ccggcattac actgacctcg cttgctgacc tctggccctc ggccaccacc tctgtctgga gtatgtttgt taatcacaaat taatcacagc actgcacatg tctcttctg caccacggtc cttggtcagg cagctctgag cgctgtctgg ctgtgacatc caaccccatc tccggatcat ccatcatcgc aagacgaag agaactggaa gttggaaaa ggaggaagg tctgtgaac acccccctgg gggttcattt gagctttgag ctgttctttt agggatgccc tcttttactt tatactttaa tatactttta gcaaataggg aacaatgtcc | ccgtacagat ccgagccct ccctgaagc accccgctt aagggccacc aactacacgg gtgggttca attggaaaa tcagacctgt tacaagctca gtcccgcca gtccctgtg aaactccaca atctccctca agctgtctcc ttcactctgc actcggagcc aagtcgctgg gcaccgctct atcttcagag ctcttcagag atctacactc aagtgcccca gtcgcgctgc gctcgcgag cagtcgctga gcaccgctct ctcttcagag tgaccaacaa gagagatgct gaggagactc gcaaatcgga tgcttcttgg gctcttact ctgccaggga tggtgtcggg gatcaggtcc cgccctggaa agcattgtca tgcccccatg agtttcaaac acacccacc ctacctgag gttatcagag tatgttgagt tctcgtgagg ccaaagtctc | cgaaacgcaa ggaagccta tctctgcct caggttggc caggttggc tatcagcgg ctgctttatc ccacggacc agcctacaca gtggtttctg cgccatcgcc taagtcctc acgggagcaa taacttcgc cctgggtgg cctgcctac cctgtcttc gctcgtgct ggtccgcaa caattcctcc aaacgtcaac tggtcgtgg ggagctgctg tggtgtcggg gagcaggtcc cgccctggaa agcattgtca tgcccccatg agtttcaaac acacccacc ctacctgag gttatcagag acgtaggctg ccaaagtctc | Homo sapiens |

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Sphingolipid NP_001391.2
Receptor
Edg1

Homo
sapiens

catgtaagcg ggatcccggtt tttggaattt ggttgaagtc actttgattt ctttaaaaa
catcttttca atgaaatgtg ttaccatttc atatccattg aagccgaat ctgcataagg
aagccactt tatctaaatg atattageca ggtacttggt tgccttagga gaaacagaca
agcaaaaca agtgaaaacc gaatggatta acttttgcaa accaaggag atttcttagc
aaatgagtct acaaaatag acatccgtct tccccactt tgttgattgt tatttcagaa
tcttggtgta ttcatttcaa gcaacaacat gttgtatttt gttgtgttaa aagtactttt
cttgattttt gaatgtattt gtttcaggaa gaagtcattt tatggatttt tctaacccgt
gttaactttt ctagaatcca cctcttcttg ccttaagca ttactttaac tggtagggaa
cgccagaact tttaagtcca gctattcatt agatagtaat tgaagatatg tataaatatt
acaaagaata aaaatatatt actgtctctt tagtatggtt ttcagtgc aa ttaaacccgag
agatgtcttg tttttttaa aagaatagta ttaaataggt tctgactttt tgtggatcat
tttgcacata gctttatcaa cttttaaaca ttaataaact gatttttta aag
MGPTSVPLVK AHRSSVSDYV NYDIIVRHYN YTGKLNISAD KENSIKLTSV VFILICCFII P
LENIFVLLTI WTKKFKHRPM YFIGNLALS DLLAGVAYTA NLLSGATTY KLTPAQWFLR
EGSMFVALSA SVFSLLAIAI ERYITMLRMK LHNGSNFRL FLLISACWVI SLILGGLPIM
GWNCISALSS CSTVLPPLYHK HYILFCTVTF TLLLSIVIL YCRIYSLVRT RSRRTFRKN
ISKASRSSEK SLALLKTVII VLSVFIACWA PLFILLLLDV GCKVKTCDIL FRAEYFLVLA
VLNSGTNP11 YTLTNKEMRR AFIRIMSCK CPSSGDSAGKF KRPIIAGMEF SRSKSDNSSH
PQKDEGDNPE TIMSSGNVNS SS

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3847

Sphingolipid NM_005226
Receptor
Edg3

Homo
sapiens

atggcaactg cctcccgc gcgtctccag ccggtgcggg ggaacgagac cctgcggag A
cattaccagt acgtggggaa gttggcgggc aggcgaagg agccctccga gggcagcacg
ctcaccacog tgcctctctt ggtcatctgc agcttcatcg tcttgagaa cctgatggtt
ttgattgcca tctggaaaaa caataaat ttt cacaaccgca tgtactttt catgggcaac
ctggctctct gcgacctgct ggccggcact gcttacaagg tcaacattct gatgctggc
aagaagacgt tcagcctgtc tcccacgtc tggttctctca gggaggggcag tatgttcgtg
gcccttgggg cgtccacctg cagcttactg gccatcgcca tggagcggca ctgacaatg
atcaaaatga ggccttaaga cgccaaacag aggcaccgag tcttctctct gatcgggatg
tgctggctca tgccttcac gctgggcgccc ctgccattc tgggctggaa ctgcctgcac
aatctccctg actgctctac catctcgccc ctctactcca agaatacat tgccttctgc
atcagcatct tcacggccat cctggtgacc atcgtgacc tctacgcag catctacttc
ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca
ctgctgcgga ccgtggtgat tgtgtgagc gtgtctcatg cctgctggtc cccactcttc
atcctcttcc tcattgatgt ggcctgcagg gtgcaggcgt gcccatcct ctcaaggct
cagtgttca tctgtgtggc tgtgtcaac tccgccatga acccggtcat ctacacgtg
gccagcaagg agatgcggcg ggccttcttc cgtctggtc gcaactgcct ggtcagggga
cgggggggccc gcgcctcacc catccagcct gcgctgcacc caagcagaag taaatcaagc
agcagcaaca atagcagcca ctctccgaag gtcaaggaa accctgcccc cacagacccc
tcactctgca tcatggacaa gaacgcagca cttcagaat ggtacttctg caactga
MATALPPRIQ PVRGNETLRE HYQYVGKLAG RLKASEGST LTTVLFLVIC SFIVLENLMV P
LIAIWNKNKF HNRMYFFIGN LALCDLLAGI AYKNVILMSG KTFSLSPV WFLREGSMFV
ALGASTCSLL AIAIERHLM IKNRPYDANK RHRVFLILGM CWLIAFTLGA LPILGWNCLH

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Sphingolipid NP_005217.1
Receptor
Edg3

Homo
sapiens

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|-----|------|--------------------------------|-----------|--|-----------------|
| 240 | 3848 | C-C Chemokine Receptor 9 | NM_006641 | NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHNNSERSMA LLRTTVIVVS VFIACWSPLF ILFLIDVACR VQACPILFKA QWFIVLAVLN SAMNPVYTL ASKEMRRRAFF RLVNCNCLVRG RGARASPIQP ALDPSRSKSS SSNNSSHSPK VKEDLPHTDP SSCIMDKNAA LQNGIFCN gcccctcatc ccaggcgag agcaaccag ctctttccc agacactgag agctggtggt A gctgtgtgc ccaggcgag ttgcatggcc ctcccaagc cctattccta acatggctga tgactatgc tctgaatcca catcttccat ggaagactac gttaaactca acttcactga cttctactgt gagaaaaaca atgtcaggca gtttgcgagc catttcctcc cacccttgta ctggctcgtg ttcatcgtgg gtgccttggg caacagtctt gttatccttg tctactggta ctgcacaaga gtgaagacca tgaccgacat gtctcttttg aatttggcaa ttgctgacct cctctttctt gtcactcttc ccttctgggc cattgctgct gctgaccagt ggaagtccca gaccttcatt tgcaagggtg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcatcagcg tggacaggta cattgccatt gcccaggcca tgagagcaca tacttggagg gagaaaaggc ttttgtacag caaaatggtt tgctttacca tctgggtatt ggcagctgct ctctgcaccc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc accatggttt accctagcga tgagagcacc aaactgaaat cagctgtctt gacctggaag gtcatcttgg ggttcttctt tcccttcttg gtcatggctt gctgtctac catcatcatt cacacctga tacaagccaa gaagtcttcc aagcacaaag cctaaaaagt gacctcact gtcctgaccg tctttgtctt gtctcagttt cctacaact gcattttgtt ggtgcagacc attgacgctt atgccatgtt catctccaa tgtgcggtt ccaccaaat tgacatctgc ttccaggtea cccagacctt cgccttcttc cacagttgcc tgaacctgt tctctatgtt tttgtgggtg agagattccg cgggatcttc gtgaaaacc tgaagaactt gggttgcatc agccaggccc agtgggtttc attacaag agagaggga gcttgaagct gtcgtctatg ttgctggaga caacctcagg agcactctcc ctctgagggt tcttctctga ggtgcatggt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaagggatg aatctgaact atatgattac ttgtagtcag aatttgccaa agcaaatatt tcaaaatcaa ctgactagtg caggaggctg ttgattggct cttagactgtg atgcccgcaa ttctcaaaag aggactaagg accggcactg tggagcacc ttggctttgc actcgcgga gcatcaatgc cgtgcctct ggaggagccc ttggattttc tccatgcact gtgaacttct gtggcttcag ttctcatgct gcctcttcca aaaggggaca cagaagcact ggctgctgct acagaccgca aaagcagaaa gtttcgtgaa aatgtccatc ttbgggaaat ttcttacctt gctcttgagc ctgataaacc atgccaggtc ttatagattc ctgatctaga acctttccag gcaatctcag acctaatctt cttctgttct ccttgttctg ttctgggcca gtgaaggtec ttgtctgat ttgaaacga tctgcaggct ttggcagtga acccttgag aactgaccac acccaagg ctccaaaagt ctgttggctt ccaatccatt tctgtgtcct gctggaggtt ttaacctaga caaggattcc gcttattcct tggatgggtg acagtgtctc tccatggcct gagcaggag attataacag ctgggttcgc aggagccagc cttggccctg ttgtaggctt gttctgttga gtggcacttg ctttgggtcc accgtctgtc tgctccctag aaaatgggtt ggttcttttg gccctcttct tctgagggc cactttatc tgaggaatc agtgagcaga tatgggcagc agccaggtag ggcaagggg tgaagcgag gcttgtgtg aaggctattt acttccatgc ttctctttt cttactctat | Homo sapiens |
|-----|------|--------------------------------|-----------|--|-----------------|

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|-----|------|---|-------------|---|-----------------|
| 241 | 3848 | C-C Chemokine Receptor 9 | NP_006632.2 | MADDYGSBST SSMEDYVNFN FTDFYCEKNN VRQFASHFLP PLYWLVIIVG ALGNSLIVILV P YWYCTRVTM TDMFLNLAI ADLLFLVTLF FWAIAAADQW KFQTFMCKV NSMYKMFYS CVLLIMCISV DRYIAIAQAM RAHTWREKRL LYSKMWCFIT WVLAAALCIP EILYSQIKEE SGIAICTMVY PSDESTKLKS AVTLKVILG FFLPFVVMAC CYTIIHTLI QAKSSKHKA LKVITITLV FVLSQFPYNC ILLVQITDAY AMFISNCAVS TNIDICFQVT QTIAFFHSL NPVLYFVGE RFRDLVKT LKLGICISQAQ WVSFTRREGS LKLSMMLLET TSGALS | Homo sapiens |
| 242 | 3849 | G Protein- Coupled Receptor GPR1 | NM_005279 | atggaagatt tggaggaac attattgaa gaattgaaa actattccta tgacctagac A tattactctc tggagtctga ttggaggag aagtcacagc tgggagttgt tcactgggtc tccctgggtg tatattgtt ggcttttgtt ctgggaattc caggaaatgc catgctcatt tggttcacgg ggctcaagtg gaagaagaca gtcacactc tgggttccct caatctagcc attggcgatt tcattttct tctcttctg cccctgtaca tctctatgt ggcattgaat ttccactggc cctttggcat ctggctgtgc aaagccaatt ccttcactgc ccagttgaac atgtttgcca gtgtttttt cctgacagt atcagcctgg accactatat ccacttgatc catcctgtct tatctcatcg gcatcgaaac ctcaagaact ctctgattgt cattatatc atctggcttt tggcttctct aattggcggg cctggcctgt acttcggga cactgtggag ttcaataatc atactctttg ctataacaat ttccagaagc atgacctga cctcactttg atcaggcacc atgttctgac ttgggtgaaa ttatcattg gctatctctt ccttttgcta acaaatgagta ttgtctact ttgtctcatc ttcaaggtga agaagcgaac agtctgcatc tccagtaggc atttctggac aattctggtt gtggttgggt cctttgtggt ttgctggact ccttatcacc tgtttagcat ttgggagctc accattcacc acaatagcta ttccaccact gtgatgcagg ctggaatccc cctctccact ggtttggcat tctcaaatag ttgcttgaac cccatccttt atgtccta at tagtaagaag ttcaagctc gcttcgggtc ctcagttgct gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacacag ctcaataa MEDLEETLFE EFENYSYDLD YYSLESDLEE KVQLGVVHWV SILVYLAFV LGIPGNAIVI P WFTGLKWKKT VTTLWFNLIA IADFIPLFL PLYSYVAMN FHWPFGIWLC KANSFTAQLN MEASVFFLTV ISLDHYIHLI HPVLSHRHRT LKNSLIVIF IWLASLIGG PALYFRDTVE FNNHTLCYNN FQKHDPDLTL IRHVLTWVK FIIGVLPFL TMSICYLCI FKVKKRTVLI SSRHFWTILV VVAFVVCWT PYHLESIWEL TIHNSYSHH VMQAGIPLST GLAFINSLIN PILYVLISKK FQARFSSVA EILKYTLWEV SCSTGVSEQL RNSETKNLCL LETAQ atggcctcat cgaccactcg gggccccagg gttttctgact tattttctgg gctgcccgcg A gcggtcacaa ctcccccaa ccagagcgca gaggctctcg cgggcaacgg tctgggtggct ggcgcgacg ctccagcgt cagcccttc cagagctcgc agctggtgca tcaagtgaag gggctgacg tctgtctcta cagcgtcgtg gtggtcgtgg ggtggtggg caactgctg ctggtgctgg tgatcgcgcg ggtgcgcgcg ctgcacaacg tgacgaactt cctcatcggc aacctggcct tgtccgactg gctcatgtgc accgctcgcg tgcgctcac gctggcctat | Homo sapiens |
| 243 | 3849 | G Protein- Coupled Receptor GPR1 | NP_005270.1 | | Homo sapiens |
| 244 | 3850 | G Protein- Coupled Receptor 10 (GPR10) | NM_004248 | | Homo sapiens |

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|-----|------|---|-------------|---|-----------------|
| 245 | 3850 | G Protein- Coupled Receptor 10 (GPR10) | NP_004239.1 | <p>gccttcgagc cagcgggctg ggtgttcggc ggcggtcgtt gccacctggt cttcttcctg cagccgggtca ccgtctatgt gtcggtgttc acgtcacca ccatcgagtg gacccgttac gtcgtgtgtg tgcacccgtt gaggcggc atctcgtgc gccacgagc ctacgctgtg ctggccatct ggcgctgtc cgcggtgctg gcgctgccc cgcgctgca cactatcac gtggagctca agcgcacga cgtgcgctc tgcgagagt tctgggctc ccaggagcg cagcgccagc tctacgctg gggcgctgtg ctggtacat cctgtctcc tctgctgtc atcctcctgt cttacgtccg ggtgtcagt aagctccgca accgctggt gccgggctgc gtgacccaga gccaggccga ctgggacgc gtcgggcgc gccgacctt ctgcttgctg gtggtggtc tgggtgtgtt cgcgctgc tggctgcgc tgcacgtctt caacctgctg cgggacctg accccaagc catgacctt tacgctttg gctggtgca gctgctctgc cactggctg ccatgagtt gccctgctac aaccttca tctacgctg gctgcacgac agcttcgctg aggagctgc caaactgtt gtcgcttgc ccgcaagat agcccccat ggccagaata tgaccgtcag cgtggtcatc tga</p> | Homo sapiens |
| | | | | <p>QSLQLVHQLK P TACVPLTLAY ISLRLSAYAV LVTYLLPLLV WLPLHVFENLL VAVVVEAVC SFRELRKLL VAVPRKIAPH</p> | |
| 246 | 3851 | G Protein- Coupled Receptor GPR12 | NM_005288 | <p>atgaatgaag acctgaaggt caatttaagc gggtgcctc gggattattt agatgccgt A gctgcggaga acatctcggc tgctgtctcc tcccgggttc ctgccgtaga gccagagcct gagctcgtag tcaacccctg ggacattgtc ttgtgtacct cgggaacctt catctcctgt gaaaaatgcca ttgtgttctt tatcatcttc caaacccca gccgcgagc acctatgttc ctgctaatag gcagcctggc tcttcagac ctgctggccg gcatggact catcaccaat ttgtttttg cctacctgct tcagtcagaa gccaccaagc tggtcacgat cggcctcatt gtgcctctt tctctgcctc tgtctgcagc ttgtgtgcta tcactgttga ccgctacctc tcactgtact acgctctgac gtaccattcg gagaggacgg tcacgtttac ctatgtcatg ctcgtcatgc tctgggggac ctccatctgc ctggggctgc tgcccgtcat gggctggaac tgctccagc acgagtcac ctgcagctg gtccagaccg tcaccaagaa caacgcggc atcctctcgg tgccttctt cttcatgtt gcgtcatgc ttcagctcta catccagatc tgtaagattg tgatgagga cgcctcatc atagccctgc agcacctt cctggccacg tcgcactatg tgaccacccg gaaagggtc tccacctgg ctatcatcct ggggacctt gctgctgtct ggtgcctt caccctctat tctttagatg cggattacac ctaccctcc atctatacct acgccaacct cctgcccgc acctacaat ccatcatcaa cctgtcata tatgctttca gaaaccaaga gatccagaa gcgctctgc tcatgtgctg cggtgctcatc ccgtccagtc tgcgccag agcgctgc cccagtgtg tgtag</p> | Homo sapiens |
| 247 | 3851 | G Protein- Coupled Receptor GPR12 | NP_005279.1 | <p>MNEDLKVNL GIPRDYLDAA AENISAASV SRPAVEPEP ELVNPWDIV LCTSGTLISC P ENAIIVLIIF HNPSLRAPMF LIGSLALAD LLAGLITN FVFAYLLQSE ATKLVITGLI VASFASVCS LLAITVDRL SLYALTYHS ERTVTFTYM LVNLTGTSIC LGLLPVMGNW CLRDESTCSV VRPLTKNAA ILSVSFLEMF ALMLQLYIQI CKIVMRHAHQ IALQHHFLAT</p> | Homo sapiens |

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|-----|------|--|-------------|--|-----------------|
| 248 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | NM_001337 | SHYVTRKGV STLAIILGTF AACWMPFTLY SLIADYTYP S IYTYATLLPA TYNSINPVI YAFNRQEIQK ALCLICCGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtcca cggcaggcct tcaccatgga tcagttccct A gaatcagtgag cagaaaaactt tgatcagcat gatttggctg aggcctgtta tatbggggac atcgtggctc ttgggactgt gtccctgtcc atattctact cgcctcatctt tgccattggc ctggtgggaa atttggttgtt agtgttggc ctcaccaaca gcaagaagcc caagatgtgc accgacattt accctcctgaa cctggccttg tctgatctgc tgtttgtagc caatttgccc ttctggactc actatttgat aaatgaaaaa ggcctccaca atgccatgtg caaattcact accgccttct tcttcactgg ctttttggga agcatattct tcataccctg catcagcatt gataggacc ttggccatcgt cctggccgcc aactccatga acaaccggac cgtgcagcat ggcgtcacc tcagccctagg cgtctgggca cagcccatct ttgtggcagc acccagttc atgttcacaa agcagaaaaga aaatgaatgc cttgtgtact acccggagt ccttcaggaa atctggcccg tgcctccgaa ttgtgaaaca aatttcttg gcttctact cccctgtctc attatgagtt attgctactt cagaaatcat cagacgtgtg ttttctgcaa gaaccacaa aaagccaaag ccattaaact gatccctctg gtggctcatc tgttttctt cttctggaca ccctacaaag ttatgatttt cctggagacg cttagctctt atgacttctt tccagttgt gacatgagga aggatctgag cctggccctc agtggactg agacggttgc attagccat tgttgccctga atcctctcat ctatgcattt gctggggaga agttcagaag atacctttac cacctgtatg ggaatgcctt ggctgtcctg tctgtggcgt cagtcacagt tgatttctcc tcactctgaat cacaaggag caggcatgga agtgttctga gcagcaattt tacttaccac acgagtgtg gagatgcatt gctcctctc tgaagggaat cccaaagcct tgtgtctaca gagaacctgg agttcctgaa cctcaatgca cacaacaaa aagatttttg ttgttatttc ttacaggcac aaatgatgg acccaatgca cacaacaaa cctagatgtg ttgttgagaa ttgtgctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gactagacat ttctcttact gcaaatgtca tcagaacttt ttggtttgca gatgacaaaa attcaactca gactagttaa gttaaatgag ggtgtgtaat attgttcata ttgtggcaca agcaaaaaag gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta KPKSVTDIYL LNLALSDLIF VATELFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVOHWTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWVPL RNVTENFLGF LLPLIMSYC YFRITQLFS CKNHKKAKAI KLILLVVIVF FLFWTPYNNM IFLETLKLYD FFPSCDMRKD LRLALSVTET VAFSHCCLNP LIYAFAGEKE RRYLYHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NRYHTSDGD ALLLL atggaccacag aagaaacttc agttatttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctctg tcttctctcc agtctttac acagctgtgt tctgtactgg agtgcctggg aacctgttc tcattgggagc gttgcatttc aaacccggca gccgaagact gatcacatc ttatcatca atctggctgc cctgacttc atttttcttg tcacattgac tctctgggtg gataaagaag catctctagg actgtggag acgggctcct tccctgtgcaa agggagctcc tacatgatct ccttcaatat gcactgcagt gtcctcctgc tcaactgcat gagtgtgac cgttactctg ccattgtgtg gccagtcgta tccaggaaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc | Homo sapiens |
| 249 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | NP_001328.1 | MDQFPESVTE NFEYDDLAEA KPKSVTDIYL LNLALSDLIF VATELFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVOHWTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWVPL RNVTENFLGF LLPLIMSYC YFRITQLFS CKNHKKAKAI KLILLVVIVF FLFWTPYNNM IFLETLKLYD FFPSCDMRKD LRLALSVTET VAFSHCCLNP LIYAFAGEKE RRYLYHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NRYHTSDGD ALLLL atggaccacag aagaaacttc agttatttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctctg tcttctctcc agtctttac acagctgtgt tctgtactgg agtgcctggg aacctgttc tcattgggagc gttgcatttc aaacccggca gccgaagact gatcacatc ttatcatca atctggctgc cctgacttc atttttcttg tcacattgac tctctgggtg gataaagaag catctctagg actgtggag acgggctcct tccctgtgcaa agggagctcc tacatgatct ccttcaatat gcactgcagt gtcctcctgc tcaactgcat gagtgtgac cgttactctg ccattgtgtg gccagtcgta tccaggaaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc | Homo sapiens |
| 250 | 3853 | G Protein- Coupled Receptor GPR15 | NM_005290 | atggaccacag aagaaacttc agttatttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctctg tcttctctcc agtctttac acagctgtgt tctgtactgg agtgcctggg aacctgttc tcattgggagc gttgcatttc aaacccggca gccgaagact gatcacatc ttatcatca atctggctgc cctgacttc atttttcttg tcacattgac tctctgggtg gataaagaag catctctagg actgtggag acgggctcct tccctgtgcaa agggagctcc tacatgatct ccttcaatat gcactgcagt gtcctcctgc tcaactgcat gagtgtgac cgttactctg ccattgtgtg gccagtcgta tccaggaaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc | Homo sapiens |

251 3853 G Protein- Coupled Receptor GPR15 NP_005281.1 MDPEETSVYL DYVYATSPNS DIRETHSHVP YTSVFLPVFY TAVFLTGVLG NLVLMGALHF P Homo sapiens

ccatactgtg cagagaaaaa ggcaactcca attaaactca tatgtccctt ggtggcctta
 attttcacct tttttgtccc ttgtgtgagc attgtgacct gctactgttg cattgcaagg
 aagctgtgtg cccattacca gcaatcagga aagcacaaca aaagctgaa gaaatctata
 aagatcatct ttattgtcgt ggagccttt cttgtctcct ggctgccctt caatactttc
 aagttccctgg ccattgtctc tgggttcggg caagaacct attaccctc agtattctt
 cagcttggtg tggaggtgag tggacccttg gacattgcca acagctgtgt caaccctttc
 attactata tcttcgacag ctacatcgc cgggccattg tccactgctt gtgcccttgc
 ctgaaaaact atgactttgg gagtagcact gagacatcag atagtacct cactaaggct
 ctctccacct tcattcatgc agaagatttt gccaggagga ggaagaggtc tgtgtcactc
 taa

252 3854 G Protein- Coupled Receptor GPR18 NM_005292 gaaagagaca aagcagcaat taaagtcagc ccagcaccaa ctccgacgcc aagcgttaca A Homo sapiens

ctggaaaacta ctttttaaag caacaaaaga gtctaaaaca aaatacaaca tttcttaaat
 acactgtttc cagaaaagac tattttaaca gaagcaactc aaagataacc cttcgacaga
 agtgggaagt ctgaaaaaatg ctcatctctc acacagactt ttgatggaca ggagtctcta
 agtatcatgc ctaccaacaa gctgtaaaat gatcacctg acaaatcaag atcaacctgt
 cctttttaac agctcacatc cagatgaata caaaattgca gcccttgtct tctatagctg
 tatcttcata attggattat ttgttaacat cactgcatta tgggttttca gttgtaccac
 caagaagaga accacggtaa ccatctatat gatgaatgtg gcattagtgg acttgatatt
 tataatgact ttacccttc gaatgtttta ttatgcaaaa gatgaatggc catttgagga
 gtacttctgc cagattcttg gagctctcac agtgttttac ccaagcattg ctttatggct
 tcttgccctt attagtgtg acagatacat ggccattgta cagccgaagt acgccaaga
 acttaaaaac acgtgcaag ccgtgctggc gtgtgtggga gtctggataa tgacctgac
 cagaccacc cctctgctac tgctctataa agaccagat aaagactcca ctcccgcac
 ctgctctcaag atttctgaca tcatctatct aaaagctgtg aacgtgtga acctactcg
 actgacattt tttttcttga ttcttttgtt catcatgatt ggtgtgctact tggctattat
 tcataatctc cttcacggca ggactctaa gctgaaacc aaagtcaagg agaagtcct
 aaggatcatc atcacgtgc tgggtcaggt gctcgtctgc tttatgccct tccacatctg
 ttctgctttc ctgatgctgg gaacggggga gaacagttac aatccctggg gagcctttac
 caccttctc atgaacctca gcacgtgtct ggatgtgatt ctctactaca tcgtttcaaa
 acaatttcag gctcgagtca ttagtgtcat gctataccgt aattacctc gaagcatcg
 cagaaaaagt ttccgatctg gtagtctacg gtcactaagc aataaaaaa gtgaaatgtt
 atgaataata aggttctttc atttcaatcc catcaaaatt cacttcaacta actactctgg
 cgtcaatgga tattctgtat aatactatca agtccctttt ctcttgaaaa aataaattca
 ttatcttcat tttaaaaaa aaaaaaaa

255 3855

| | | | | | |
|-----|------|---|-------------|--|-----------------|
| 257 | 3856 | G Protein- Coupled Receptor GPR2/CCR10 | NP_057686.1 | <p>ccacctgctc cagctggccc tggcggacct cttgtgtggc ctgactctgc ccttcggcgc agcaggggct cttcagggtt ggagtctggg aagtgcacc tgcgcacca tctctggcct ctactggcc tcttccaag ccggtcttct cttctgtggc tgtatcagcg ccgaccgcta cgtggccatc gcgcagcgc tcccagcgg gcgcggccc tccactcccg gccgcgcaca cttggtctcc gtcactgtgt ggctgtgtc actgtctctg gcgtgcctg cgtgtctctt cagccaggat gggcagcggg aaggccaag acgtgtgctg ctcactctcc ccgagggcct cacgcagacg gtgaaggggg cagcgcctg ggcgcaggtg gccctgggct tcgcgtgc gctggcgctc atggtagcct gctacgcctt tctggcgccg acgtgtgctg ccgccagggg gcccgagcgc cggcgtgcgc tgcgcgtcgt ggtggctctg gtggcgccct tcgtggtgct gcagctgcc tacagcctcg cctgtgtgct ggatactgcc gatctactgg ctgcgcgca gcggagctgc cctgccagca aacgcaagga tgtcgactg ctggtgacca gcggcttggc cctcgccgcg tgtggcctca atccgttct ctacgccttc ctggcgctgc gcttcgcca ggacctgcgg agctgtctac ggggtgggag ctgcctcca gggcctcaac ccgcgcggg ctgccccgcg cggccccgcg ttcttctctg ctacgtctcc acggagacc acagtctctc ctgggacaac tagggctgcg aatctagagg agggggcagg ctgagggtcg tgggaaaggg gagtaggtgg gggaacactg agaaagaggc agggaccta agggactacc tctgtgcctt gccacattaa attgataaca tggaaatgaa aaaaaaaaaa aaaa</p> | Homo sapiens |
| 258 | 3857 | G Protein- Coupled Receptor GPR20 | NM_005293 | <p>atgccctctg tgtctccagc ggggcccctcg gccggggcag tccccaatgc caccgcagtg A acaacagtgc ggaccaatgc cagcgggctg gaggtgcccc tgttccacct gtttgcccgg ctggacgagg agctgcatgg cacttccca ggcctgtgcy tggcgctgat ggcggtgcac ggagccatct tcttggcagg gctggtgctc aacgggctgg cgtgtacgt cttctgtgc cgcaccccg gccaagacac ctcagtcate tacaccatca acctggtggt gaccgatcta ctggtagggc tgtcccctgc cagcgccttc gctgtgtact acggcgccag gggctgcctg cgctgtgctt tcccgacgt cctcggttac tctctcaaca tgcactgctc cactctctc ctcaactgca tetgctgga ccgtacctg gccatcgtgc gggccgaagc tcccgccgc tgccgccagc ctgctgtgc cagggccgtg tgcgccttcg tgtggctggc cgccggtgcc gtcacctctg cgtgctggtg cgtgacaggc agccggccct gctgcccgtg ctttgcgtg actgtccttg agtctctgct gccctgtgcy gtcactgcy tgtttaccgg ccgcatcatg tgtgcaactg cgcggccggg tctgtctcac caggtgcgc agcgcgcgt gcgggcccag cagctcctgc tcacggtgct catcatctt ctcgtctgct tcacgcctt ccacgcccgc caagtggccg tggcgctgtg gccgacatg ccacaccaca cgagcctcgt ggtctaccac gtggccgtga cctcagcag cctcaacagc tgcattgacc ccatcgtcta ctgcttcgtc accagtggct tccaggccac cgtccgaggc cttctcgcc agcacggaga gcgtgagccc agcagcgggt acgtggtcag catgcacagg agtcccaagg gctcaggccg tcatcacatc</p> | Homo sapiens |

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|-----|------|--|-------------|---|-----------------|
| 259 | 3857 | G Protein- Coupled Receptor GPR20 | NP_005284.1 | ctcagtcgag ggcctcacgc cctcacccag gccctgggcta atggggcccgaggccttag MPSVSPAGPS AGAVPNATAV TTVRTNASGL EVPLFHLFAR LDEELHGTFF GLCVAlMAVH P GAIFLAGLVL NGLALYVFC RTRAKTSVI YTNILVVTDL LVGLSLTRF AYYGARGCL RCAFFPHVLGY FLNMHCSILF LTCICVDRL AIVRPAAP QRPACARVH CAFVWLAAGA VTLVLGVGTG SRPCCRFFAL TVLEFLPLL VISVFTGRIM CALSRPGLIH QGRQRRVRAM QLLLTVLIIF LVCFTPFHAR QVAVALWPDH PHHTSLVVYH VAVTLSSINS CMDPIVYCFV TSGEQATVRG LFGQHGEREP SSGDVSMHR SSKSGSRHHI LSAGPHALTQ ALANGPEA atgaactcca ccttggatgg taatcacagc agccacccct ttgacctctt ggcatttggc A tatttggaac ctgtcaattt ttgctttttg gaagtattga ttattgtctt tctaactgta ttgattattt ctggcaacat cattgtgatt ttgtatttct actgtgcaac ttgttggagt catcacacta caagttattt tatccagatt atggcaatag ctgacctttt ttgttggagt agctgctggg tccctctctt atcactctc catcacccct ttccagtaga ggaagtccctg acttgccaga tatttggttt ttagtagtaca gttctgaaga gcgtctccat ggtctctctg gcctgtatca gattgatag atacattgcc attactaac ctttaacctt taatactctg gttacacctt ggagactacg cctgtgtatt ttccgtgatt ggcatactc gacctgtgtc ttcctgctt cctttttcca ctggggcaaa cctggatgat atggagatgt gttcagtggt tgtgcggagt cctggcacac cgactctac ttccacctgt tcatogtgat gatgtatat gccccagcag ccttattgt ctgcttcacc tatttcaaca tcttcogcat ctgccaacag cacacaaagg atatcacga aaggcaagcc cgcttcagca gccagatgg ggagactggg gaagtgcagg cctgtcttga taagcgtat gccatggtcc tgtttcgaat cactagtgtg ttttacatcc tctggttggc atatatcatc tacttctgt tggaaagctc cactggccac agcaaccgct tcgcatcctt ctgaccacc ttgcttgcta ttagtaacag ttcttgcaac tgtgtaatt atagtctctc caacagtgtt ttccaaagag gactaaagcg cctctcaggg gctatgtgta cttctgtgac aagtcagact acagccaacg acccttacc agttagaagc aaaggccctc ttaatggatg tcatatctga MNSTLDGNQS SHPFCLLAG YLETVNFCLL EVLIIVFLTV LIISGNIIV FVFHCAPLLN P HHTTSYFIQT MAYADLFVGV SCVPSLSLL HHPFVVEESL TCQIFGFVVS VLKSVSMASL ACISIDRYIA ITKPLTYNTL VTPWRRLCI FLIWTYSTLV FLPSFFHWGK PGYHGDVFWQ CAESWHTDSY FTLFIWMLY APAALIVCFY YFNIFRICQQ HTKDISERQA RFSSQSGETG EVQACPDKRY AMVLFRTSV FYILMLPYII YFLLSSTGH SNRFASFLT WLAINSNFCN CVIYSLNSV FQGLKRLSG AMCTSCASQT TANDPVTVRS KGPLNGCHI atgtgttttt cctccattct ggaaatcaac atgcagtctg aatctaaccat tacagtgcga A gatgacattg atgacatcaa caccaatatg taccacaccat tatcatatcc gtttaagcttt caagtgtctc tcaccggatt tcttatgtta gaaattgtgt tgggacttgg cagcaacctc actgtattgg tacttactg cactgaaatcc aacttaataca actctgtcag taacattatt acaatgaatc ttcatgtact tgatgtaata atttgtgtgg gatgtattcc tctaactata gttatccctc tgcttttact ggagagtaac actgtcttca ttgtctgttt ccatgaggct tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgtctatcac ttggacagga tatgacatct ctgtaaaacc tgcaaaccca atctgacaa ttggcagagc tgtaattgta atgatatacca ttgtgatttt ttcttttttc tcttctctga ttctttttat tgaggtaaat | Homo sapiens |
| 260 | 3858 | G Protein- Coupled Receptor GPR21 | NM_005294 | | Homo sapiens |
| 261 | 3858 | G Protein- Coupled Receptor GPR21 | NP_005285.1 | | Homo sapiens |
| 262 | 3859 | G Protein- Coupled Receptor GPR22 | NM_005295 | | Homo sapiens |

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|-----|------|---|-------------|--|-----------------|
| 263 | 3859 | G Protein- Coupled Receptor GPR22 | NP_005286.1 | <p>tttttcagtc ttcaaaagtgg aaatacctgg gaaaaacaaga cactttttatg tgtcagtagaca aatgaatact acactgaact gggaatgtat tatcacctgt tagtacagat cccaatattc tttttcactg ttgtagtaat gttaatcaca tacacaaaaa tacttcaggc tcttaatat cgaataggca caagattttc aacaggggcag aagaagaaa gacgtgggtg gagaaatgta tctctaacca cacaacatga ggctacagac atgtcacaaa tccggcgagc tgtgaaacga gtctttggtg taagaacttc agttctctga ataattgcc tccggcgagc tgtgaaacga cacctggaac gacgagaaa acaaaagaga gtcttcagga tgcctttatt gattatttct acatttcttc tctgctggag accaatttct gttttaaata ccaccatttt atgtttaggc ccaagtgacc ttttagtaaa attaagattg tgttttttag tcatggctta tggaacaact atatttcacc ctctattata tgcattcact agacaaaaa ttcaaaaggc cttgaaaaagt aaaaatgaaa agcgagttgt ttctatagta gaagctgac ccctgcctaa taatgctgta atacacaaact cttggataga tcccaaaaga acaaaaaaaa ttacctttga agatagtga ataagagaaa aacgttttagt gcctcaggtt gtcacagact ag</p> | Homo sapiens |
| | | | | <p>QVSLTGFML EIVLGLSNL P TVLVLYCMKS NLINSVSNII TMNLHVLVDVI ICVGCIPLTI VILLISLESN TALICCFHEA CVSFASVSTA INVFAITLDR YDISVKPANR ILTMGRAVML MISIWIFSEF SFLIPFIEVN FFSLQSGNTW ENKTLICVST NEYYTELGMV YHLLVQIPIF FFTVVMMLIT YTKILQALNI RIGTRFSTGQ KKKARKKTI SLTTOHEATD MSQSSGGRNV VEGVRTSVSV IIALRRAVKR HRERRERQKR VFRMSLLIIS TFLLCWTPIS VLNTILCLG PSDLLVKLRL CFLVMAYGTT IFHPLLYAFT RQKFQKVLKS KMKKRVSIV EADPLPNNAV IHNSWIDPKR NKKITFEDSE IREKRLVPQV VTD</p> | |
| 264 | 3860 | G Protein- Coupled Receptor SLC/MCH1 | NM_005297 | <p>atgttgtgtc cttccaagac agatgggtcga gggcactctg gtaggattca ccaggaaaact A catggagaag gaaaaaggga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacggtgg gtcgctggag gctgagcatg ccagcaggat gtcagttctc agagcaaaagc ccagtcaaaa cagccaaagc ttgctccttc tgtccccagg atcacctcct cgacacggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctcctgggca tcatcgggaa ctccacggtc atcttcgcg tctggaagaa gtccaagctg cactgggtga acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctcctc tttctcctgg gcatgcccct catgatccac cagctcatgg gcaatggggt gtggcacctt ggggagacca tgtgcacct catcacggcc atggatgcca atagtcagtt caccagcacc tacatctga cggccatggc cattgaccgc tactggcca ctgtccacc catctcttc acgaagtcc ggaagccctc tbtggccacc ctggtgatct gctcctctgtg ggcctctcctc ttcatcagca tcacctctgt gtggctgtat gccagactca tccccctccc aggaggtgca gtgggctgag gcatagcctt gcccaaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt gtggtcatca cagccgcata cgtgaggatc ctgcagcgca tgaogtccct agtggccccc gctccccagc cagcatccg gctgaggaca aagaggtgta cccgacagc catcgccatc tgtctggtct tctttgtgtg ctgggacccc tactatgtgc tacagctgac ccagttgtcc atcagccgccc cgacctcac ctttgtctac ttatacaatg cggccatcag cttgggctat gccaacagct gctcaaccc ctttgtgtac atcgtgctct gtgagacgtt ccgcaaacgc ttggtcctgt cgggtgaagcc tgcagccacg gggcagcttc gcgtgtcag caacgtcag acggtgacg aggagaggac agaaagcaaa</p> | Homo sapiens |

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|-----|------|---|-------------|---|--|--|---|---|---|-----------------|-----------------|
| 265 | 3860 | G Protein- Coupled Receptor SLC/MCH1 | NP_005288.1 | ggcacctga MLCPSKTDGS RAKPMNSQR HWCNNVPDIF YILTAMAI DR VGC GIRLPN KRVTRTAIAI IVLCETFRKR atggccccca ttggacggcc tacatccccg gtgtggctgc ctggcggcag agggcgccgt acgcgctcgg gtgaagctgc ggcgtctcgg ccccgcctgc ctcagcttcg tactgcgcga tcgctgcgca gccctgcggg ctgtggcgc gccaacccgc gcctgcgggc gacgacagtt tag | GHSGRIHQET LLLLSPGSP IINLSVVDLL YLATVHPIS DTDLYWFTLY CLVFFVCWAP LVLSVKPAAQ cagagccctg tggaggagct cgctctacct tggccggcgg ctgacctggg ggccgttcgg cgaggcgag tcgaggcgag cggtggcgct ggggccagg ggcgtcgtct tctgcgcgcg tcactctcgc cctgttcgca gcacggcggc cctgtttccg | HGEGKRDKIS RTGSISYINI FLMGPEMIH TKFRKPSVAT QFFLAFALEP YYVLQTLQLS GQLRAVSNQA gagccccagc ggagctgtgt ggcgcccttc ggcgccggcg cttcgtgttc cgatggcctc gctgtggcg gccactgcgc gctggccggc cagccagtgc gctgaccttc tctgcgcgcg cctgcgcgcg tcactctcgc cctgttcgca gcacggcggc cctgtttccg | NSEGRENGGR IMPSVFGTIC QLMGNGVWHF LVICLLMALS VVITAAVTRI ISRPTLTFVY LYNAAISLGY TADEERTESK GT | GFQMNNGSLE LLGIIGNSTV GETMCTLITA FISITPVWLY LQRTSSVAP ANSCLNPFVY | AEHASRMSVL IFAVVKSKL MDANSQFTST ARLIPFPGA ASQSRIRLT | Homo sapiens | |
| 266 | 3861 | G Protein- Coupled Receptor GPR25 | NM_005298 | atggccccca ttggacggcc tacatccccg gtgtggctgc ctggcggcag agggcgccgt acgcgctcgg gtgaagctgc ggcgtctcgg ccccgcctgc ctcagcttcg tactgcgcga tcgctgcgca gccctgcggg ctgtggcgc gccaacccgc gcctgcgggc gacgacagtt tag | LVLSVKPAAQ cagagccctg tggaggagct cgctctacct tggccggcgg ctgacctggg ggccgttcgg cgaggcgag tcgaggcgag cggtggcgct ggggccagg ggcgtcgtct tctgcgcgcg tcactctcgc cctgttcgca gcacggcggc cctgtttccg | GQLRAVSNQA gagccccagc ggagctgtgt ggcgcccttc ggcgccggcg cttcgtgttc cgatggcctc gctgtggcg ggcatgagcg accccgcgct ctgcctccc tggtctaccg gtccacagc ctcccttcgc tggctcgggc cgctcggcgc gctcctggct tgccttcgag gggtcgggc cagctcctc acactgcctc ggcctcctgg | TADEERTESK GT | cgccctggga acctgcccta tgcctggcaa tggataacct tgtgggccgc tggaccgcta tgcaagctca ggcatgagcg accccgcgct gcccgtggc ctcgtgtgc ggggtgtgcag ctcccaagc tggctgtcac tggctcgggc gctcctggct tgccttcgag tgccgtgcgc tgcccttcgt caacagctgc gagcccgggc gctggacggg cagctcctc acactgcctc ggcctcctgg | ctactcgggg cggtctacgt cgcctttgtg cgtgctgcac ggcgccggct gctggcgggc tggataacct tgtgggccgc tgatggctgc tgcaagctca ggcatgagcg accccgcgct ctgcctccc tggtctaccg gtcccaagc ctcccttcgc tggctcgggc cgctcggcgc gctcctggct tgccttcgag tgccgtgcgc tgcccttcgt gaacagctgc gctggacggg cagctcctc acactgcctc ggcctcctgg | A | Homo sapiens |
| 267 | 3861 | G Protein- Coupled Receptor GPR25 | NP_005289.1 | WLLAGRRGP TRSAGALLLA PLPGGQDSQC SLRIIFAIES ANPLIYLLLD atgatgtggg gtaagcagcg aaggcctggg gtgggtggcca agcctggccc ttctgcatcg accgccagca | PGSAPWDYSG RRLVDTFVLH GMSVDRIYAV GEEP SHAFQ TFVGSWL PFS RSFRALD G gtgcaggcag tggggccagc atgtgtgtgt tcactctcgc tggcagacct gatgagcctg tcggcagctct | LDGLLELELC LAAADLGFVL VKLEEARPLR LSLLLLLT ALRAVEHLAR ACGRTGRLAR cctctggcc agagggggcc cctctggcc cactctcgc cactctcgc gatgagcctg actggccatc | PAGDLPYGYV TLPLWAAAA TPRC AVASCC VPLVVTFLC LGLALPCLPL RISSASSLSR tggctctcag acaggtccag agaggtccag tgcctcggcc tgcctcggcc tgcctcggcc tgcctcggcc | YIPALYLA AF RRWPFGDGL GVMAVALLAG YCRISRRLLR LLALRWGLTI DSSSVFRCRA ctggctcag cgccacctc cgccacctc tgcctcggcc tgcctcggcc tgcctcggcc tgcctcggcc | AVGLLGNAFV CKLSTFALAG LPSIVYRGLQ PHVGRARN ATCLAFVNSC QAANTASASW caactggaat gcctcgcct gaatgcgcta gctgggtggc tgcctcggcc aatggccttt tctgtacaat | Homo sapiens | |
| 268 | 3862 | G Protein- Coupled Receptor GPR3 | NM_005281 | atgatgtggg gtaagcagcg aaggcctggg gtgggtggcca agcctggccc ttctgcatcg accgccagca | gtgcaggcag tggggccagc atgtgtgtgt tcactctcgc tggcagacct gatgagcctg tcggcagctct | cctctggcc agagggggcc cctctggcc cactctcgc cactctcgc gatgagcctg actggccatc | RISSASSLSR tggctctcag acaggtccag agaggtccag tgcctcggcc tgcctcggcc tgcctcggcc tgcctcggcc | QAANTASASW caactggaat gcctcgcct gaatgcgcta gctgggtggc tgcctcggcc aatggccttt tctgtacaat | A | Homo sapiens | |

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|-----|------|--|-------------|--|-----------------|
| 269 | 3862 | G Protein- Coupled Receptor GPR3 | NP_005272.1 | <p>gacctcacct actattcaga gacaacagtg acacggacct atgtgatgct ggccttagtg tggggagtg cctgggctt ggggctgctg cctgggacct cctgggacct cctgggacct ctgaccacat gtggcggtgt ttatccactc tccagaacac atctggtagt tctggccatt gcctttctca tgggtgtttg catcatgctg cagctctacg cccaaatctg ccgcatcgtc tgccgccatg ccagcagat tgcccttcag cggcacctgc tgcctgcctc ccactatgtg gccacccgca agggcattgc cacactggcc gtggctgctg gagectttgc cgcctgtgg ttgcccttca ctgtctactg cctgtgggtg gatgcccact gtccacctct ctacacctat cttaccttgc tccctgccac ctacaactcc atgatcaacc ctatcatcta cgccttcgc aaccaggatg tgcagaaagt gctgtgggtg gctgtgctgct gctgttcctc ttccaagatc cccttcgat cccgctccc cagtgtgtc tag</p> <p>VVAIIVGTPA FRAPMFLVVG SLAVADLLAG TGPAAPLPSP KAWDVVLCIS GTLVSCENAL P TASIGSLAI TVDRYLSLYN ALTYSETTV TRTYVMLALV WGGALGLGLL PVLAWNCLDG LITCGVWYPL SKNHLVVLAI AFFMVGIML QLYAQICRIV CRHAQOIALQ RHLLPASHYV ATRKGIATLA VVLGAFAACW LPFTVYCLLG DAHSPLYTY LTLLPATYNS MINPIIYAFR NQDVQKVLWA VCCCCSSSKI PFRSRSPSDV</p> | Homo sapiens |
| 270 | 3863 | G Protein- Coupled Receptor GPR31 | NM_005299 | <p>atgccattcc caaactgctc agccccagc actgtgtgtg ccacagctgt ggggtgtctg A ctggggctgg agtgtgggtg gggctgtctg ggcaacggcg tggcgctgtg gaccttctg ttccgggtca ggggtgtgaa gccgtacgct gtctacctg tcaacctggc cctggctgac ctgtgtgtg ctgctgtgct gctttctctg gccgcttctg acctgagcct ccaggcttgg catctgggct gtgtgggtg ctggggcctg cgttctctgc tggacctcag ccgcagcgtg gggatggcct tccgtggcgc cgtggctttg gaccgtacc tccgtgtgtt ccacctcgg cttaaggctc acctgctgtc tccctaggcg gccctggggg tctcgggct cgtctggctc ctgatggctg cctcaccctg cccgggcttg ctcatctctg agcccgcca gaactccacc agggtccaca gtttctactc cagggcagac ggctccttca gcatcatctg gcaggaaagca ctctcctgct ttcagtttgt cctcccttct ggcctcatcg tgtctgcaa tgcaggcatc atcagggtc tccagaaaag actccgggag cctgagaaac agcccaagct tcagcgggct caggcactgg tcaaccttgg tttgtgtctg tttgtctgt gctttctgct ctgcttctg gccagagtcc tgatgcacat ctccagaaat ctggggagct gcagggcctt ttgtgcagtg gctcatacct cggatgtcac gggcagcctc acctacctgc acagtgtcgt caacccctg gtatactgct tctccagccc cacttccagg agctcctatc ggagggtctt ccacacctc cgaggcaaaag ggcaggcagc agagccccca gatttcaacc ccagagactc ctattcctga LLLAACLPEL AAFYLSLQAW HLGKRVGCWAL RFLDLRSV GNAFLAAVAL DRYLRVWHPR LKVNLSPQA ALGVSLGLWL LMVALTCPLG LISEAAQNST RCHSFYSRAD GSFSLIWEA LSCLEFVLPF GLIVFCNAGI IRLQKRLRE PEKQPKLQRA QALVTLVVVL FALCFPLPCFL ARVLMHIFON LGSCRALCAV AHTSDVTGSL TYLHNVNVPV VYCFSSPTFR SSYRRVFHTL RGKQAAEPP DFNPRDSYS</p> | Homo sapiens |
| 271 | 3863 | G Protein- Coupled Receptor GPR31 | NP_005290.1 | <p>ctgggtgacct tacttatctc tgggtgtctt tgggggtccta ggaatgcca gcaactccac A ccacattgcc tgaactttcc aacactccct agctgcgctg tgtcctatct caacacttcc tcatgtattt ctgtgtctt ctagaacatt cccccgcat tattacttca atatggctac</p> | Homo sapiens |
| 272 | 3864 | G Protein- Coupled Receptor | NM_005282 | | Homo sapiens |

GPR4

acataacttcc taattgcccct gaaaccatc tccctctcac cattgccag cgatgctttc
gtctctcca taaacactcc cggagaccaaa tttttgtgtc accccatcac tccctggttg
acaactgac tccatacata acctccttga aaaacctctt tattaatctc accatcctcc
agacttccct cctgtcataa ttcctatcct tcccaactt tccctctca agctctgccc
ttccagccc agccagcct accaaacctc atctcttccc tgtagaccac atcccacat
gttccctga gctccaag aaggggctca gggggccca tggcctccc ctcctgttg
ccccacagc cccgtggcc aggggaagc cccagaagc ggaagtccc accatggga
accacacgtg ggaggctgc cactggact cgcggtgga ccacctttt ccgcatccc
tctacatctt tgtcatggc gtgggctgc ccaccaactg cctggctctg tggcgccct
accgccaagt gcaacagcgc aacgagctgg gcgtctact gatgaacctc agcatcgccg
acctgctga catctgacg ctgcgctgt ggttgacta tttcttgca cagcaact
ggatccacgg ccccggttc tgcaagctct ttgggttcat ctctacacc aatctctaca
tcagcatgc cttcctgtgc tgcattcgg tggacccta cctggctgtg gccacccac
tccgcttcg ccgctgcgc cgcgtcaaga ccgcgtggc cgtgagctcc gtggtctggg
ccacggagct gggcgccaac tcggcgccc tgttccatga cgaactcttc cgagaccgt
acaaccacac cttctgctt gagaaagtcc ccatggaagg ctgggtggcc tggatgaacc
tctatcgggt gtctgtggc ttcctctcc cgtggcgct catctgtg tctaccggg
gcatectgcg ggcgtggcg ggcagcgtgt ccacgagcg caggagaag gccaaagatca
agcggtgc cctcagctc atcgccatg tgctgtctg tctgtggc ttcacagtgc
tcttgtgtc ccgacgccc atctactgg gccgcctctg ggaactgggc ttgagggagc
cgctctttc tgcataccac agctcactg ctttaaccag cctcaactgt gtggcggaac
ccatcctcta ctgcctggtc aacgagggcg ccgcagcga tgtggccaag gccctgcaca
acctgctccg ctttctggcc agcgacaagc cccagagat gccaatgcc tgcctcacc
tggagacccc actcacctcc aagaggaaca gcacagcaa agccatgact ggcagctggg
cgccactcc gccctcccag ggggaccagg tgcagctgaa gatgctgcc cagacacaat
gaaccccag tggcacagaa tcccagttt tccctctca tccacagtc ccttctctcc
tggctctgtg tatgcaatt tgggtgttca ctggtcaacc tttgtgctcc cagatcccc
gaacttagga agagtgggt tgggtgttga gggcctcctg aagagggaga tggtaataa tttttttg
cacagtgtg cgttgttga gggcctcctg aggtgcagt agtgcagtc tggctcactg
gagacaggt ctcactgtgt tcccaggt ctccagcgat ctccacat cagcctccc agtagctgg
cagcctccac ctcctgggt tcccaggt catgctggc taattttgt actttttga taaatggagt
accacaaatg tgagccacc catgctggc taattttgt ctcctggct caagagatcc tctgcttg
ctcactatgt tccccagc tgatcttga ctcctggct agcggccatg tctggccaga taaataagt
gctcccaaa gtgtcagat tagagatgtg agcggccatg agcggccatg tctggccaga taaataagt
caacatttg gttccagaa aataagaca aatagagaag gttagatttt ttttttcca
acaagtgat aaaagtctgt gactcggggg aaagtggaa gagaatgca gccgatatag
agtcatatg tttgcaagc cctggtcat acagggccag gaacataaga ccgcaattct
aagtttctag ataaacagc atctccagt caagactgag gatgaagg gagaatgtca
gaactcaagt gaaggcaat cagggcagac tgcctggag agtgcagc gaaggtttg
gaagaagggt tgggacaaga agaaagggt tttattcatt cattcaacag aggtttatgt
agggactgt gctgggtggg gctggggaca caacaatgac tgaggcagcc tggccttggc

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| 273 | 3864 | G Protein- Coupled Receptor GPR4 | NP_005273.1 | ttcacaggcg tcaccatata caagtaata aaaaatatgt aatgtttgga attgct MGNHTWEGCH VDSRVDHLFP PSLYIFVIGV GLPTNCIALW AAYRQVQORN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNWIHGPGSC KLFGEFYTN IYISAFICC ISVDRYLAVA HPLREARLRR VKTAVAVSSV VWATELGANS APLFHDELEF DRYNHTCFE KFPMEGWAVW MNLRYRVFVGF LFPWALMELS YRGILRAVRG SVSTERQEKA KIKRLALSIL AIVLVCFAPY HVLLLSRSAL YLGRPWDCGF EERVSAYHS SLAFTSLNCV ADPILYCLVN EGARSDVAKA LHNLRLFLAS DKQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ | Homo sapiens |
| 274 | 3866 | G Protein- Coupled Receptor GPR6 | NM_005284 | atgaacgcga gcgcgcctc gctcaacgac tcccagggtg tggtagtggc ggccgaagga A gcggcgccgg cgccacagc agcagggggg cggaacggg gcgaatggg accccctgct gcggcgctc taggagccgg cggcggagct aatgggtctc tggagctgtc ctcgcagctg tcggctggc caccggact cctgctgcca gcggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgategc tggagaaaac gcgctgggtg tggcgctcat cgcgtccact ccggcgctgc gcacgcccac gtctgtgctg taggcagcc tggccaccgc tgacctgtg gcgggctgtg gcctcatctt gcactttgtg tccagtaact tggtgccctc ggagactgtg agtctgtca cggtggtctt cctcgtggcc tccctgcgcg cctctgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacgcgc tcacctatta ctcgcgccg accctgttg gcgtgcaact cctgcttgc gccacttga cctgtccct aggcctggg ctgctgccg tgctgggtg gaactgctg gcagagcgg ccgctgcaag cgtggtgcgc ccgctggcg gcagccact ggctctgctc tccgcgcct tcttcattgt ctcggcctc atgctgcacc tgtactgtgc catctgccag gtggtctggc gccacgcga ccagatgcg ctgcagcag actgcctggc gccaccccat ctcgctgcca ccagaaaagg tgtgggtaca ctggctgtg tgctgggca tttcggcgcc agctggctg ccttcgccat ctattgcgtg gtgggcagcc atgaggaacc ggcggtctac acttacgcca ccctgctgcc cgccacctac aactccatga tcaatcccat catctatgcc ttcgcaacc agagatcca gcgcgccctg tggtcctgc tctgtggctg tttccagtc aaagtgcct ttcgttccag gtctccacg gaggtctga | Homo sapiens |
| 275 | 3866 | G Protein- Coupled Receptor GPR6 | NP_005275.1 | MNASAAASLND SQVVVAEG AAAATAAGG PDTGEMGPPA AAALGAGGGA NGSLELSSQL P SAGPPGLLLP AVNPWDVLLC VSGTVIAGEN ALVVALIAST PALRTPMFVL VGSLATADLL AGCGLIHVF FQYLVPSVTV SLLTVGFIVA SFAASVSSL AITVDRLSL YNALTYYSRR TLIGVHLLA ATWTVSLGLG LLPVLGNCL AERAACSVVR PLARSHVALL SAAFFMVFGI MLHLYVRICQ VWRHAHQIA LQOHCLAPPH LAATRKGVGT LAVLGTFGA SWLPFAIYCV VGSHPDPAVY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV | Homo sapiens |
| 276 | 3867 | G Protein- Coupled Receptor GPR7 | NM_005285 | atggacaacg cctcgttctc ggagccctgg ccgcacaacg catcgggccc ggaccggcg A ctgagctgtc ccaacgcgtc gactctggcg ccgctgcgg cgccgctggc ggtggctgta ccagttgtct acgcgcgtg ctgcgcctg ggtctggcg gcaactccg cgtgctgtac gtgttctgc gggcgcccc catgaagacc gtcaccaac tgttcatct caacctggcc atcgccgacg agctcttcac gctgggtctg cccatcaaca tgcgcactt cctgctgcg cagtgccct tcggggagct catgtgcaag ctcactgtg ctcacgacca gtacaacac | Homo sapiens |

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| 277 | 3867 | G Protein- Coupled Receptor GPR7 | NP_005276.1 | <p>ttctccagcc ttacttctct caccgtcatg agcgcgcgacc gctacctgggt ggtgttgccc actgcggagt gcgcgcgggt gccgcgcgcg acctacagcg ccgcgcgcgc ggtgagcctg gccgtgtgg ggtcgtctac actcgtctcg ctgccttcgc cagtcttcgc ccggttagac gacgagcag gccgcgcgca gtgcgtgcta gtctttccgc agccgcaggc cttctgtgtg cgcgcgagcc gccctacac gctcgtctg gcttcgcca tcccgtgtc caccatctgt gtctctata ccacctgct gtgcgcgctg catggcatgc gctggagacg ccacgccaag gccctggagc gcgccaagaa gcgggtgacc ttctgtgtgg tggcaatcct ggcgtgtg ctctctgct ggacgcctta ccacctgagc accgtgtgg cgtcaccac cgacctcccc cagacgcgc tggtcacgc tatctctac ttcatcaca gccctgacgta cgccaacagc tgctcaacc cttctctta cgccttctg gacgcagct tccgcaggaa cctccgccag ctgataact gccgcgcgcg agcctga</p> <p>MDNASFSEPW PANASGPDPA LSCSNASTLA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P VLLRAPRMKT VTNLFILNLA IADELFTIVL PINIADFLR QWPFGLMCK LIVAIQYNT FSSLYFLTM SADRYLVVLA TAESRRVAGR TYSARAVSL AVWGIVTLV LPFAVFAFLD DEQRRQCVL VFPOPEAFWM RASRLYTLVL GFAIPVSTIC VLYTLLCRL HAMRLDSHAK ALERAKKRV FLVAILAVC LLWTPYHLS TVVALTDL P QTPLVIAISY FITSITYANS CLNPLYAFL DASFRNL RQ LITCRRAA</p> | Homo sapiens |
| 278 | 3868 | G Protein- Coupled Receptor GPR8 | NM_005286 | <p>atgcaggccg csgggcacc agagccccct gacagcagg gctccttctc cctccccacg A atgggtgcc aactctctca ggacaatggc actgggcaca atgcacatt ctcgcagacca ctgcgcttc tctatgtgt cctgcgcgc cgtactccg ggtactgtgc tgtggggctg actggcaaca cggcgtcat ccttgaatc ctaaggcgc caaagatgaa gacggtgacc aacgtgttca tctgaaact ggccgtcgc gacgggctct tcacgtggt actgccccgc aacatgcgcg agcactgct gcagtactgg cctctggg agctgctctg caagctgggtg ctggccgtcg accactaca catctctcc acatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgt gccacccgtg aggtcccgc acatgccctg gcgacacctac cggggggcga aggtgcacag cctgtgtgtc tggctggg tcaaggctc ggttctgccc ttcttctct tcgctggcgt ctacagcaac gagctgagc tcccaagctg tgggctgagc ttcccgtggc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc ttcgtgtgc ccgtgtgcac catctgtgtg ctacacacag acctcctcg caggctgagg gccgtgcgc tccgtctgg agccaaggct ctaggccaag ccaggcgga ggtgaccgtc ctggtcctcg tccgtctgg cgtgtgccc cctgtgctga cgccttcca cctggcctc gtcgtggccc tgaccacgga cctgcccag acccactgg tcatcagat gctcactgc atcacacgcc tcacgtacgc caactgtgc ctgaacccct tctctacgc ctttctagat gacaactcc ggaagaact ccgacgata ttcggtgct ga</p> <p>MQAAGHEPL DSRGFSFLT MGNVSDNG TGHNTFSEP LPFLYVLLPA VYSGICAVGL P TGNTAVILVI LRAPKMTVT NVFILNLA DGLFTLVLPV NIAEHLQYW PFGEILLCKLV LAVDHYNIFS SIYFLAVMSV DRYLVVLA TV RSRHMPRTY RGAKVASLCV WLGVTVLVLP FFSEAGVYSN ELQFSCGLS FPWERWFK ASRYTLVLG FVLPVCTICV LYTDLLRLR AVRLRSKAKA LKARKKTV LVLVLA VCL LCWTFPHLAS VVALTTDL P TPLVISMYSY ITSLTYANSC LNPFLYAFLD DNFRKNFRSI LRC</p> | Homo sapiens |
| 279 | 3868 | G Protein- Coupled Receptor GPR8 | NP_005277.1 | | Homo sapiens |

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|-----|------|---|-----------|---|-----|------|---|-------------|---|--------------|
| 280 | 3869 | G Protein- Coupled Receptor HM74 | NM_006018 | cgccacttgg ctggagcatt cactaggcga ggcgctccat cggactcaat agccgcactc A atgaatcggc accatctgca ggatcacttt ctggaatatg acaagaagaa ctgctgtgtg sapiens ttccgagatg acttcattgc caaggtgttg ccgcccgtgtg ttgggctgga gtttatcttt gggcttctgg gcaatggcct tgcctctgtg attttctgtt tccacctcaa gtccctgga tccagccgga ttttctgtt caacctggca gtactgact ttctactgat catctgcctg ccgttcgtga tggactacta tgtgcggcgt tcagactgga actttgggga catccctgc cggctggtgc tcttcattgt tgcctatgac cgcacaggga gcatacttt cctcacggtg gtggcgtag acaggtattt ccgggtgtgc catccccacc acgcccctgaa caagatctcc aattggacag cagccatcat ctcttgctt ctgtggggga tcaactgttg cctaacagtc cacctcctga agaagaagt gctgatccag atggccctg caaatgtgtg catcagcttc agcatctgcc ataccttcg gtggacgaa gctatgttc tcttgagtt cctcctgccc ctgggcatca tctgttctg ctacgccga attatctgga gcctgcggca gagacaaatg gaccggcatg ccaagatcaa gagagccatc acctcatca ttgtgtggc catcgtcttt gtcatctgct tccctccag cgtgtgtgtg cggatccga tcttctggc cctgcacact tcgggcacgc agaattgtga agtgtaccg tcggtggacc tggcgttctt tatcactctc agcttcacct acatgaacag catgctggac cccgtgggt actacttctc cagcccatcc tttcccaact tcttctccac ttgatcaac cgtgcctcc agaggagat gacaggtgag ccagataata accgcagcac ggcgtcgag ctacacaggg accccaaca aaccagaggc gctccagagg cgttaatggc caactccgtt gagccatgga gccctctta tctgggccc acctcaata accattccaa gaaggacat tgcaccacag aaccagcatc tctggagaaa cagttgggct gttgcacga gtaattcac tggactcggc taaaggttct cttggaacttc cagattcaga gaactcgatt tagggaaact taggcagatg agtgggagac tgggtgcaag gtgtgaccac aggaatcctg gaggaacaga gactaaagt tctaggcatc tgaacttgc tcatctctg acgtcgcag gactgaagt gggcaaatg taggcgttct tgcagagcag agttggagcc agagatctac ttgtgacttg ttggccttct tcccacatct gcctcagact gggggggct cagctcctcg ggtgatctc agcctgctg tagctctag cagggataag gagagctgag attggaggga attgtgtgc tctggagga agcccaggga tcattaaca agccagtagg tcacctgct tccgtggac aattcatct tcagacaagc tttagagaaa tggactcagg gaagagactc acatgcttg gttagtatct gtgttcccg tgggtgta aggggattag cccagaagg gactgagcta aacagtgtta ttatgggaaa gaaatggca ttgctgctt caaccagcga ctaatgcaat ccattcctct cttgttata gtaactaag ggttgagcag ttaaaacggc ttcaggatag aaagctgtt cccacctgtt tegttttacc attaaaaagg aaacgtgcct ctgccccacg gtagagagg gtgcacgttc ctcctggttc cttcgctgtt gttctgtac ttacaaaaa tctaccact caataaattt tgataggaga caaaaaaaa a | 281 | 3869 | G Protein- Coupled Receptor HM74 | NP_006009.1 | MNRHLQDHF LEIDKNCVV FRDDFIKVL PPVIGLEFIF GLLGNGLALW IFCFHLKSWK P SSRIFLNLA VADFLLIICL PFVMDYYVRR SDWNFGDIPC RLVLFEFAMN RQGSIIFLT V VAVDYFRV HPHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISF SICHTFRWHE AMELLEFLP LGIILFCSAR IISLQRQRM DRHAKIKRAI TFIMVAIVE VICFLPSVAV RIRIFWLLHT SGTQNCVYR SVDLAFFITL SFTYMSMLD PVVYFSSPS FPNFFSTLIN RCLQKMTGE PDNNRSTVE LTGDPNKTG APEALMANS EPWSPSYLGP | Homo sapiens |
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|-----|------|---|-------------|--|-----------------|
| 282 | 3870 | G Protein- Coupled Receptor OGR1 | NM_003485 | atggggaaca tcaactgcaga caactctctg atgagctgta ccatacgacca taccatccac A cagacgctgg ccccggtggt ctatgttacc gtgctgtgtg tgggtctccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aagggccgga acgagctggg cgtgtacctg tgcaacctga cgggtggcga cctctttctac atctgtctgc tgcctttctg gctgcagtac gtctgcagc acgacaactg gtctcagcgc gacctgtcct gccaggtgtg cggcatcctc ctgtacgaga acatctacat cagcgtgggc ttctctgtct gcatctcctg ggacgcctac ctggctgtgg cccatccctt ccgcttccac cagttccgga cctgaaggc ggccgtcggc gtcagcgtgg tcatctgggc caaggagctg ctgaccagca tctacttctt gatcacagag gaggtcatcg aggacagaaa ccagcacgc gtgtgctttg agcactaccc catccaggca tggcagcgcg ccataaacta ctaccgtctt cgtgtgggct tctcttccc catctgcctg ctgtggcgt cctaccaggg catctcgcgc gccgtgcgc ggagccacgg caccagaag agccgcaag accagatcca gcggctggtg ctacagaccg tgggtcatctt cctggcctgc ttcctgacct accagtgtt gctgtgtgtg cgcagctctt gggaggccag ctgcgacttc gccaaaggcg ttttcaacgc ctaccacttc tctctctgc tcaccagctt caactgcgtc gccgaccccg tgcctactg ctctgtcagc gagaccaccc accgggacct ggcccgctc cgcggggcct gccctggcctt cctcacctgc tccagggaccg gccggggccag ggaggccctac ccgctgggtg ccccgaggc ctccgggaaa agcggggccc aggtgtgaga gcccgagctg ttgaccaagc tccaccgcgc ctccagacc cctaactgc cagggtcggg cgggttcccc acgggcaggt tggcctag | Homo sapiens |
| 283 | 3870 | G Protein- Coupled Receptor OGR1 | NP_003476.1 | MSCTIDHTIH QTLAPVVVVT VLVGFFPANC LSLYGYLQI KARNELGVYL P CNLTVDLIFY ICSLPFWIQY VLQHDNWSHG DLSCQVCGIL LYENIYISVG FLCISVDRI LAVAHPRFHF QFRTLKAAVG VSVVIWAKEL LTSIYFLMHE EVIDENQHR VCFEHPYIQA WQRAINYYRF LVGFLEPICL LLASYQGI LR AVRRSHGTQK SRKDIQIRLV LSTVVIPLAC FLPYHVLILV RSVWEASCDF AKGVFNAYHF SLLITSFNCV ADPVLVCFVS ETRHDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA | Homo sapiens |
| 284 | 3921 | Prostacyclin Receptor | NM_000960 | agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagccacaga A cctgggatgg cggattcgtg caggaaacctc acctacgtgc ggggtcctggt ggggccggcc accagaccc tgatgttctgt ggcgggtgtg gtgggcaacg ggcctggccct gggcatcctg agcgacggc gaccggcgcg cccctcggcc ttccgggtgc tggtaaccgg actggcgggc accgacctgc tgggcaaccag ctctctgagc ccggcctgt tctgtggccta tgcgcgcaac agctccctgc tgggctggc ccgagggcggc ccgcctcctg gcgatgcctt cgccttcgac atgaccttct tcggcctggc gtccatgctc atctctttt ccatggccgt ggagcgtgc ctggcgctga gccacccta cctctacgcg cagctggagc ggccccgctg cggccgctg cgctggccag ccatctacgc cttctgcgtc cttctctgcg cgtgccccct gctgggctg ggccaaacac agcagtactg ccccggcagc tgggtcttcc tccgcatcg ctggggccag ccggggcggc ccgccttctc gctggcctac gccggcctgg tggccctgct ggtggctgct atcttctct gcaacggctc ggtcacctc agcctctgcc gcatgtacc ccagcagaag cgccaccagg gctctctggg tccacggcg cgcacccgg aggacaggt ggaccacctg | Homo sapiens |

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|-----|------|---------------------------------------|---|--------------|
| 285 | 3921 | Prostaglandin NP_000951.1 Receptor | atctcgtggt ccctcatgac agtggtcatg gccgtgtgct ccctgcctct cagatccgc tgcttcaacc aggtgtgctg ccctgacagc agcagtgaga tgggggacct ccttgcttc cgcttctacg ccttcaacc catctggac ccctgggtct tcactctttt ccgcaaggct gtcttcacgc gactcaagct ctgggtctgc tgctgtgccc tgggacctgc ccacggagac tgccagacac ccttttccca gctgcctcc gggagaggag acccaagggc cccctctgct cctgtgggaa aggaggggag ctgctgctct ttgctggctt gggcgaggag gacgtggag cccttgctc ccacacagca gtccagcgc agcgcgtgg gacgtcgtc caaagagaa gccagcgtc cctgctcct ctgctgacat ttcaagctga cctgtgatc tctgacctg cttcgggga caggagccag aaatcaggg acatggctga tggctgggga tgctggaacc ttggcccca aactctggg cggatcagct gctgttctc ctgcgccagg gcagtgcgtg ctggctctgg gaagagagtg agggacagag gaaacgttta tctggagtg cagaaagaa ggttctctca aaataaccag tggcctggcc gacctgctc ggcctggat tccccatcca tctcattgtc taaatattta gaaggcggag aagttccag aggttctgt acagtcaggt ctgctctggt ctgggtgctg gctccaatct gcttccactt agggagccca actgcccacc ccaaagtccc aggggatggc cctcccctc taccaagcca ctccaagagc cagccccct tctgctccac aaaaaccaca gttattgaa aagctccctg ccttcccttg ccgctggctc cccaccagg ttgggagccc tggcatcca aaggggcaac gggaggaagg ggaggtgct gcattgtggg tgatgacgta ggacatgtgc ttggtacaaa aagggctga gacattccac ct | Homo sapiens |
| 286 | 3923 | Prostaglandin D2 Receptor | LLGTSLSPA VFVAYARNSS TLMFVAGVVG NGLALGILSA RRPAPSAFA VLVTLAATD P LSHPYLYAQL DGPRCALAL PAIYAFVLF CALPILGLGQ HQYCPGSGWC FLMRWAQPG GAAFLAYAG LVALLVAAIF LCNGSVTLIS CRMYRQXKH QGSLGPRPRT GEDEVHLLIL IALMTVMVAV CSLPLTIRCF TQAVAPDSS EMGDLLAFRF YAFNPILDPW VFILFRKAVF QRLKLWVCL CLGPAHGDSQ TPLSQLASGR RDPRAPSPV GKEGSCVPLS AWEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctggcgcca tgcgcaacct ctatgcatg caccggcggc tgcagcggca A cccgctctc tgcaccagg actgtgcca gccgcgcgc gacgggagg aagcgtccc tcagccctg gaggagctg atcactctt gctgctggc gctgatgacc tgctcttcac tatgtgtct ctgcccgtaa ttatcgccg tttactatga gatttaagg atgtcaagga gaaaaacag acctctgaag aagcagaaga cctccgagc ttgcatctt tatctgtgat ttcaattgtg gaccttgga tttttatcat ttccagatct ccagtattt ggataattt tcacaagatt ttcattagac ctcttagga caggagcgg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gttttcact ctgtggttaag ctgaggaata tgcacattt tcagtcaag aacca MKSPFYRCQN TTSVEKNSA VMGGVLFSTG LIGNLLALGL LARSLGWCS RPLRPLPSV P FYMVCGLTV TDLLGKCLS PVVLAAYAQN RSLRVLAPAL DNSLCQAF AFMSFFGLSST LQLLMALEC WLSLGHFFY RRHITLRLGA LVAPVSAFS LAFALPFMG FGKVVQYCPG TWCFTQMVHE EGSLSVLGYS VLYSSLMALL VLATVLCNLG AMRNLYAMHR RLQRHPRST RDAEPRADG REASQPLEE LDHLLLLALM TVLFTMCSLP VIYRAYGAF KDVKEKRTS EEAEDLRALR FLSVISIVDP WIFIFRSPV FRIFHKIFI RPLRYSRCS NSTNMESL | Homo sapiens |
| 287 | 3923 | Prostaglandin D2 Receptor | | Homo sapiens |

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|-----|------|---------------------------------|-------------|--|--------------|
| 288 | 3924 | Prostaglandin E Receptor EP1 | NM_000955 | <p> ggggggggc gggctgagcg gccggtgatg gggacccac atcccaggca gtgccggcac A ccctggcgc tgacatgagc ccttggggc cctcaacct gagctggcg ggcgagcgga ccacatgcg ggcgcctgg gtcccaaca cgtgcgcgt gagcgcgtg ggcgcttcgc ccgcgtgccc catcttctcc atgacgctgg gcgcgcgtc caactgctg gcgtggcgcg tgctggcgca ggcgcggggc cgcctggag ccgcgcgtc ggcacacc ttctgtgtgt tgctggccag cctgctggcc accgacctgg cgggcacgt gatccgggc gcgtgtgtgc tgctgtgta cactgcgggg cgcgtccgg tgcctggcg tggcatggcc ctggcggtgt gcatggtctt cttcggcctg tgcctcacg cgcgcgggt ctcgttcgcc cgcgcgcgc tgctgggctg cgcgtggcc cgcgtggct tggcgtggc ctcgttcgcc cgcgcgcgc tgggcgcgta tgagctggag taccgggca cgtgtgtct catcgccctg ggtcccccgc gcgctggcg ccaggcaatg cttgtggcc tcttcggcg cctcgccctg gtcgcgtcc tcgcccgcct ggtgtgaac acgtcagcg gctggccct gacgcgcgc cgtggcgac gccgctccc acggcctccc cggcctcag gcccgacag ccggtgcgc tggggggcg acggacccc ctcggcctcc cctcgtccg ctcgttcct cgttcggcg tccacctct ttggcggtc tcggagcagc gctcggcac cagagctcg cgcacgac gtggagatgg tgggcccagt tgcggtatc atggtgtgt cgtgcatctg ctggagccca atgctgtgt tggtggcgt ggcctcggc gctggagct ctactccct ggcggggcca cttgtcctgg ccgtgcctt tgcctcctg aaccagatcc tggaccttg ggtgtacat ctactgcgc agcccggtgt gcgcaactg cttcgcctt tgcctccag ggcggagcc agggcgggc ccgcggggt ggcctaaca ctagcgcct gggagggcag ctcgtgcgc agctcccgcc acagcgctt cagcaatcc taagcacaac cagagccca acgactaag cagccaccc tgggctggc ccaggtgcgc ggcgagagc ctttgggaa aaaaagccat tctgcg MSPCGPNLS LAGEATCAA PWNTSAVP PSGASPALPI FSNLTGAVSN LLALALLQA P AGRLRRRSA TTFLLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF GLCPLLLCG MAVERCVGVT RPLHAARVS VARALALAA VAAVALAVAL LPLARVGRYE LQYPGTWCFI GLPGPGWRQ ALLAGLFASL GLVALLAALV CNTLSGLAH RARWRRSRR PPASGPDSS RRGAGHGPS ASASSASSIA SASTFFGGR RPLFLAVRIA HDVEMVGLV GIMVSCICW SPMLVLVALA VGGWSSTSIQ RPLFLAVRIA SWNQILDWV YILLRQAVLR QLRLLPRA GAKGGPAGLG LTPSAWEASS LRSSRHSGLS HF </p> | Homo sapiens |
| 289 | 3924 | Prostaglandin E Receptor EP1 | NP_000946.1 | <p> gggcccgcgt cggcgcgctg ggtcgggaa gggggctctg gatttcggtc cctcccctt A ttcctctgag tctcggaacg ctcagctct cagacctct tctcccagg taaaggccg gagaggagg cgcctctct ttcaggcac cccaccatgg gcaatgcct caatgactcc cagtcgaggt actcgagac gcgacagtgg cttccccag gcgaagccc agccatcagc tccgtcatgt tctcgccgg ggtgctgggg aacctcatg cactggcgt gctggcgcg cgctggcggg gggacgtggg gtgcagcgc ggcgcagga gctccctct cttgttccac gtgctgggtga ccgagctgggt gttaccgac ctcgtcggga cctgcctcat cagcccagt gtactggctt cgtacgcgc gaaccagacc cttggtggac tggcgccga ggcgcgcg tgcaactact tgccttctgc catgacctc ttacgcttg ccacgatgt catgctctc gccatggccc tggagcgcta cctctcgatc gggcacccct acttctacca gcgcgcgtc tcggcctccg ggggctggc cgtgctgct gtcactatg cagtctcct gctctctgc </p> | Homo sapiens |
| 290 | 3925 | Prostaglandin E Receptor EP2 | NM_000956 | | Homo sapiens |

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|-----|------|-------------------------------|-------------|--|--------------|
| 291 | 3925 | Prostaglandin E Receptor EP2 | NP_000947.1 | <p>tcgctgcgc tgctggacta tgggcagtac gtccagtact gccccggac ctggtgcttc atccggcag ggcgaccgc ttacctgcag ctgtacgca ccctgctgt gcttctcatt gtctcgtgc tgcctgcaa cttcagtgc attctcaacc tcatecgcat gcaccgccga agccggagaa gccgctggcg accttccctg ggcagtggcc gggcgggccc cggggccgcg aggagagggg aaagggtgtc catggcgag gagacggacc acctcatctt cctggctatc atgaccatca ccttcgccgt ctgtcccttg ccttcacga ttttgcaata tatgaatgaa acctcttccc gaaaggaaaa atgggacctc caagctctta ggtttttatc aattaattca ataattgacc ctgggtctt tgccatctt aggcctctg tctgagact aatgcgttca gtcctctgtt gtcggatttc attagaaca caagatgcaa cacaacctc ctgttctaca cagtcagatg ccagtaaca ggtgacctt tgaggtcagt agttttaaag tcttagtta tatagcatct ggaagatcat ttgaaattg ttcctggag aatgaaaaac agtgtgtaaa caaatgaag ctgccctaatt aaaaaggagt atacaaacat ttaagctgtg gtcaaggcta cagatgtgt gacaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc aatgagcatg gtacttggcc ttggaggaa caatcggtc cattgaagat ccagctgctt attgatttaa gcttctctgt tgaatgacaa agtatgtgtg tttgtaattt gtttgaacc cacaacagt actgtactt ctattttaat ctgtacta cgtttataca catatagtgt acagccagac cagattaaac ttcatatgta atctctagga agtcaatag tggaaagcaac caagcctgtt gtcttgtat cacttagoga acctttatt tgaacaatga agttgaaaat cataggcacc ttttactgt atgtttgtgt atgtggagt actctcatca ctacagtatt actcttaciaa gagtggactc agtgggttaa catcagttt gtttactcat cctccaggaa ctgcaggtca agtgtcaggt ttattttatt tataatgtcc atgtctcaag agtgatcaag aagactttag gaatgttct ctcaacaaga aataatagaa atgtctcaag gcagttaatt ctcataata ctcttattat cctatttctg ggggaggatg tacgtggcca tgtatgaagc caaatattag gcttaaaaaac tgaataatct ggttcattct tcagatatac tggaaacctt ttaaagtga tattggggcc atgagtaaaa tagattttat aagatgactg tgttgtaaca aaattcatct gtctatattt tatttagggg aacatgggtt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataata tttctaaatg tttggcatgt aatgtaaaac tcagcatcaa aatatttcag tgaatttgca ctgtttaatc atagtactg tgtaaactca tctgaaatgt tacaaaaata aactataaaa ca</p> | Homo sapiens |
| 292 | 3926 | Prostaglandin E2 Receptor EP3 | L32662 | <p>RSSLSLFHVL VTELVTDLG GTCLISPVVL ASYARNQTLV ALAPESRACT YFAFAMTFFS LATMLMLFAM ALERYLSIGH PYFYQRRVSA SGGLAVLPVI YAVSLLFCSL PLDDYGQYVQ YCPGTWCIFIR HGRTAYLQLY ATLLILLIVS VLACNFSVIL NLIRHRRSR RSRCGPSLGS GRGGPGARRR GERVSMAEET DHLILLAINT ITFAVCSLPE TIFAYMNETS SRKEKWDLOA IRFLSINSII DPWFVAILRP PVRLMRSLV CCRISLRTQD ATQTSCTQS DASKQADL</p> | Homo sapiens |
| 293 | 3926 | Prostaglandin E2 Receptor EP3 | NM_000957 | <p>accagaggtt tccagagag gaaggcgtg ctcctctccc ggccagttag cctggcgcc A gccgcggccg cgggtcccag agcggagtag ggcggcggtt gcgccccga ccatggggg cagccccagc ccagccgcg taaacgcga cctccgcgc gcgccgcgc gcgtctgccc</p> | Homo sapiens |

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|-----|------|-------------------------------|-------------|--|--------------|
| 294 | 3926 | Prostaglandin E2 Receptor EP3 | NP_000948.1 | <p> cctccccgtg cggctctctg gacgccatcc cctcctcaacc tcgaagccaa catgaaggag acccggggct acggaggga tgcccccttc tgcaccgcc tcaaccactc ctacacaggc atgtgggcgc ccgagcgttc cgcgaggcg cggggcaacc tcacgcgcc tccagggtct ggcgaggatt cgggacggt gtcgctggcc ttcccgatca ccatgctgct cactggtttc gtgggcaacg cactggccat gctgctcgtg tcgcgcagct acggcgccg gagaggaag cgcaagaagt ccttcctgct gtgcacggc tggctgggc tcaccgacct ggtcgggcag cttctcacca ccccggtgct catcgtcgtg tacctgtcca agcagcgttg ggagcacatc gacccgtcgg ggcggctctg cacttttttc ggcgtacca tgaactgttt cgggctctcc tcgtgttcca tcgccagcgc catggccgtc gagcgggcgc tggccatcag ggcgcgcac tggtagcga gccacatgaa gacgctgccc acccgctg tgctgctcgg cgtgtggctg gccgtgctcg ccttcgacct gctgcgctg ctagcgggga cgggacctag cttctcgcat cccgggacgt ggtgcttcat cagcacccgg ctagggggga cgggacctag cttctcgcat aactgggga accttttctt cgcctcgtcc ttgctctcc tggggctctt ggcgtgaca gtcacctttt cctgcaacct ggcacacctt aaggccctgg tgcctcgtg cggggccaag gccacggcat ctcatgcccag tgcccagtgg ggcgcacatc cgcgagagc ggcattcag cttatgggga tcatgtcgtc gctgtcgtc tgctgtctc cgcctcgtat aatgatgttg aaaaatgatc tcaatcagac atcagtggag ctagtggga cgcacagga gaacagaaa gaatgcaact tcttctaat agctgttcgc ctggttcac tgaaccagat cttggatcct tgggtttacc tgctgttaag aaagatcctt cttcgaagt ttgcccagat gaaaaaag agactcagag agcaagagat ggggctgcat ggaaggtgtt ttgtcatgc atgaggcag gtccccagga cttggtgcag ttctcatgat agagaacctt gcagtgtcca gctaagctga tgacttgag ataaatctgc ctaacctgg gatgaagtat ctgtgaacta ttttgacagc agatgagaa ttttggggaa attaaacctt gctttctgc cagatcaca tctactggaag ctccatgact ctttttttgt aaaaagaaa aaaaatcacag aaacacccac ctcccaact attctctttt actcttccc ccaagccac ccccaaatat aactgttatc cagaagctgt tatgtcctgt ttccatacat gtttttgtac ttctactata tctacataca tcaattaaac ttatgtccta ttgttttgtg aatttatatt tgggtatata ttatcatatg taaaaattgc atttttttat tgaataattat gtttcttgag attatccac attgaacat ggagctctaa atcgtttaatt ttaaccgcta tagagtattc cataattga ataaagcata attgtttgt ac </p> | Homo sapiens |
| 295 | 3927 | Prostaglandin E4 Receptor EP4 | NM_000958 | <p> cggcacagcc tcacactga acgtgtcct cccgacagc agaccggcg gcactgcaaa A gctgggactc gtcttgaag gaaaaaaat agcgagtag aatccagca ccatcttca ctgaccatc ccgctgcacc tctgtttcc caagttttg aaagctggca actctgacct cgggtgtcaa aaatcgacag ccaatgagc cggctttgag aagccgaaga ttggcagtt </p> | Homo sapiens |

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|-----|------|---------------------------------|-------------|--|--------------|
| 296 | 3927 | Prostaglandin E Receptor EP4 | NP_000949.1 | MSIPGVNNSA SLSPDRINSP VTIPAVMFIF GVVGNIIVAIV VLCKSRKEQK ETTFTYTLVCG P | Homo sapiens |
| | | | | LAVTDLLGLT LVSPVTIATY MKGQWPGGQP LCEYSTFILL FFSLSGLSII CAMSVERYLEA FIDWTTNVT | |
| | | | | INHAIFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPTDTC TSLGTEQHHA AAAASVASRG | |
| | | | | HPAASPALPR LSDFRRRRSF RRIAGAEIQM VILLIATSLV VLICSIPLV RVFWNQLYQP | |
| | | | | SLREVSQNP DLQAIRIASV NPILDPIYI LIRKTVLSKA IEKIKCLFCR IGSSRRRSRG | |
| | | | | QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLPLDLS LPDISENGLG GRNLLPGVP | |
| | | | | MGLAQEDTTS LRTLRISETS DSSQGDSES VLLVDEAGGS GRAGPAPKGS SLQVTFPSET | |
| | | | | LNLSEKCI | |
| 297 | 3928 | Prostaglandin F2-alpha Receptor | NM_000959 | ggcgcggggc gccatggcac accgagcggc tccgtcttct gctcctcaga gagcccggt A | Homo sapiens |
| | | | | ggcgcgctgg gatgacaaga tgtctggact gcaatcctgc acagttttga gagggagatg | |
| | | | | acttgagtgg ttggctttta tctccacaac aatgtccatg acaattcca aacagctagt | |
| | | | | tccagactga gcaggacaag gtgaaagcaag gttggaggcg gttccaggac atctgagggc | |
| | | | | tgacctggg ggctcgtgag gctgccaccg ctgctgcgcg tacagaccca gccttgcaat | |
| | | | | ccaaggctgc gcaccgccag ccaactaat gtccactcc ggggtcaatt cgtccgcctc | |
| | | | | cttgagcccc gaccggctga acagccagtg gaccatccc gcggtgatgt tcatcttcgg | |
| | | | | ggtggtggc aacctggtg ccatcgtggt gctgtgcaag tcgcgcaagg agcagaagga | |
| | | | | gacgacctc tacacgtgg tatgtgggt gctgtgacc gacctgttg gcaatttgtt | |
| | | | | ggtgagccc gtgacctga ccacgtacat gaaggccaa tggccccggg gccagccgt | |
| | | | | gtgcgagtac agcaccttca ttctgctctt cttagcctg tccggcctca gcatcatctg | |
| | | | | cgccatgagt gtcgagcgt acctggccat caacctgcc tatttctaca gccactacgt | |
| | | | | ggacaagca ttggcgggc tcacgtctt tgacgtctat gcgtccaaag tgctctttg | |
| | | | | cgcgtgcc aacatgggtc tcggtagctc gcggtgcag taccagaca cctggtgctt | |
| | | | | catcgactgg accaccaag tgacggcga cgcgcctac tctacatgt acgcggtt | |
| | | | | cagtccttc ctcatctcg ccaccgtct ctgcaacgtg cttgtgtgc gcgctgct | |
| | | | | ccgcatgac cgcagttca tgcgcgcac ctgcgtggc accgagcag accacgcgc | |
| | | | | cgcggccgc tcggttgct cccggggcca cccgtgctg tccccagct tgcgcgcct | |
| | | | | cagcgacttt cggcgccgc ggagcttccg ccgcctgcg ggcgcgaga tccagatggt | |
| | | | | catcttactc attgccacct cctggtggt gctcatctg tccatccgc tcgtggtgcg | |
| | | | | agtattctc aaccagttat atcagccaag ttggagcga gaagtcagta aaatccaga | |
| | | | | tttgcaggcc atccgaattg cttctgtgaa cccatccta gacccctgga tatatact | |
| | | | | cctgagaaag acagtgtca gtaagcaat agagaagatc aaatgcctc tctgcgcct | |
| | | | | tgccgggtcc cgcaggagc gctccggaca gactgtctca gacagtcaa ggacatcttc | |
| | | | | tgccatgtca ggcactctc gctccttcat ctcccgag ctgaaggaga tcagcagtag | |
| | | | | atctcagacc ctccgcccag acctctcact gccagacct agtgaaaatg gccttgagg | |
| | | | | caggaatttg ctccaggtg tgccctggcat gggcctggcc caggaaagaca ccacctcact | |
| | | | | gaggactttg cgaatatcag agacctcaga ctcttcacag ggtcaggact cagagagtgt | |
| | | | | cttactggtg gatgaggtg gtggagcgg cagggtggg cctgccccca aggggagctc | |
| | | | | cctgcaagtc acatttcca gtgaaacact gaacttatca gaaaaatgta tataataggc | |
| | | | | aaggaagaa atacagtact gtttctggac cttataaaa tctgtgcaa tagacacata | |
| | | | | catgtcacat ttacgtgtgc tcagaagggc tatcatca | |

gtctcctgca gctgcgcttc ttccaacac aacctgccag acggaacc ggccttcctg
atcttttca gtaatcttca tgacagtggg aatctgttca aacagccttg ccatacgccat
tctcatgaag gcatatcaga gatttagaca gaatgcgaag caatgcttct tgcttttggc
cagcgccctg gtaatcactg atttcttgg caatctcatc aatggagcca tagcagtatt
tgtatatgct tctgataaag aatggatccg ctttgacca tcaaatgtcc ttgcaagtat
ttttggtatc tgcattggtg ttctggtct gtgccactt cttctaggca gtgtgatggc
cattgagcgg tgtattggag tcacaaaacc aatattcat tctacgaaa ttacatccaa
acatgtgaaa atgatgttaa gtggtgtg gtgtgtgtg cttgttctg gtttcatag cttgtgtg
catccttggg catcgagact ataaaattca ggcgtcgagg acctggtgtt tctacaacac
agaagacatc aaagactggg aagatagatt ttatcttcta ctttttctt tctggtggct
cttagccctt ggtgtttcat tgtgtgcaa tgcaatcaca ggaattacac ttttaagagt
taaatttaaa agtcagcagc acagacaagg cagatctcat catttgaaa tggtaaatcca
gtctcctggg ataatgtgtg tctcctgtat ttgttgagg ccatctcttg ttacaatggc
caacattgga ataaatggaa atcattctct ggaacctgt gaaacaacac ttttgcctct
ccgaatggca acatggaatc aaatcttaga tcttgggta tatattcttc tacgaaaggc
tgtccttaag aatcttata agcttgccag tcaatgctgt ggagtcagt tcatcagctt
acataattgg gagcttagtt ccattaaaaa ttcttaaa gtgtgtgcta tttctgagtc
accagttgca gagaaatcag caagcaccta gcttaaatagg acagtaaatc tgtgtggg
tagaacaata ataaagacat gtttggcaat atttcagtta gttaaatacc tgtagcctaa
ctggaaaatt caggcttcat catgtagtgt gaagatacta ttgtcagatt caggttttga
aatgtgtcaa ataaacagga taactgtaca ttttcaactt gttttgcca atgggaggtg
gacacaataa aataatggca tgggagtcac actgaaagca attttgagct tatctgtctt
atctatgctt tgagtgaatc atctgttgag gtcaatgccc tctacttggc ctatttgcca
gagaacatct taatgcagcc tgcatagtga aatggttatt ttgagatcac cgtctgttag
ctaaccttta taaactaggc tcagtataat aaagcactct tatttttga tctggcctat
tttgcctctc attgtgtgac ctcaattaac acatgcttgg cagacaggtt gctgacccct
gatggtttgt tataacaacc tctgcatatt ccaggtcttg tcacatttga caaataggac tgcctacatt
gcaatcctat ctagaatggg ccatttcttg tcaatattga caaataggac tgcctacatt
tattatkatg aaggtcgatt gttgttgaa gtgttttttc atgcataga tttagcaattt
tcaataaatt atttttctc tgaataattt gtgtgtgatt gcacaataa taattttttag
agaaacaaag gctctttctc agcacattga tgggcaacta gaattacagc agtttcaaac
tctaccatgg ataatgcaaa caaacggaag ctacatgcca atgataagtg caaagaatat
tggcaaaaag ttgttacct tgagcatta ttgtgtcag agacaaaaag aaacagaatc
aatatataaa ttcaaaagact atctgcagct agtgtgttct tcttttacac acatatacac
acagacatca gaaaattctg ttgagagcag gttcattaaa ttgttaagat ggcataattct
aaagcctgtg ctaccagtac taagagggga agactggcaa ttgccaagc acttggggat
tattataaca attaaactagg agatcaagag ataataatct ctcccaaat ttccaataa
taattgagac tttttcttg cttgtttgtg taattcaacc aaagaattt caatccccat
tcaaatgtc ctaggtctat cagaatttag ggaaggtagt cctgctttat aataggaaaa
tgtatttctg tataagattt cttgtcttc attaaaaatg ggattcattt aaaaattaat
cttccctgt taggctgatt tcagattctc taggaaatct ggtgaagtaa ccagaagact

[illegible]

| Receptor 2 | Proteinase-Activated Receptor 3 | Receptor 3 |
|---|---|---|
| DLLSVWFFL KIAYHIHANN WIYGERALCNV LIGFFYGNMY CSILEFTCL S VQRYWVIVNP | MGHSRKKANI AIGISLAIWL LILLVTIPLY VKQTIFIPA LNIITCHDVL PEQLLVGDMF | TPNLLLVVH YFLIKSQQS HVYALYIVAL CLSTINSCID PEVYFVSHD FRDHAKNALL |
| CRSVRTVKQM QVSLTSKKHS RKSSYSVSSS TTVKTSY | cctgcctgca cggcacagga gacgaacttc ctacagacag accaaggctt ccatttgctg A | ctgacacatg gaactgaggt gaaattgtgc tceatgattt tacagatttc ataacgttta sapiens |
| agagacggga ctcaggctcat caaaatgaaa gccctcatct ttgcagctgc tggcctcctg | cttctgttgc ccactttttg tcagagtggtc atggaataatg atacaacaa cttggcaaaag | ccaaccttac ccattaagac ctttctgtga gctcccccac attcttttga agagtccccc |
| ttttctgctt tggaaagctg gacagagcc acgattactg taaaataa ttgccttgaa | gaaagtgcct cacatctcca tgtgaaaaat gctaccattgg ggtacctgac cagctcccta | agtactaaac tgatacctgc catctacctc ctggtgtttg tagttgtgtg cccggccaat |
| gctgtgaccc tgtggatgct tttcttcagg aceagatcca tctgtaccac tgtattctac | accaacctgg ccattgcaga ttttcttttt ttgtgtacat tgccttttaa gatagcttat | catctcaatg ggaacaaatg ggtatttggg aggttccctg gccggggccc cacagtcac |
| ttctatggca acatgtactg ctccattctg ctccctgctt gcatcagcat caaccgctac | ctggccatcg tccatccttt cactaacggg ggcctgccc agcacaccta tgccttggtta | acatgtggac tgggtgtgggc aacagttttt ttatatatgc tggcattttt cactagtgaag |
| caggaatatt atcttgttca gccagacatc accactgccc atgatgttca caacacttgc | gagtcctcat ctcccttcca actctattac ttcctctcct tggcattctt tggattctta | attccatttg tgccttatcat ctactgctat gcagccatca tccggacact taatgcatac |
| gatcatagat ggttgttggtta tgttaaggcg agtctcctca tccctgtgat ttttaccatt | tgctttgtctc caagcaatat tattcttatt attcaccatg ctaactacta ctacaacaa | actgtatggtc taatttttat atatctcata gctttgtgccc tgggtagtct taatagtgtgc |
| ttagatccat tccctttattt tctcatgtca aaaaccagaa atccactccac tgccttaacctt | acaaaatagt gaaatgatct tagagaacaa ggacagccat ccagagagaac gctgtgttttc | aagaacaaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatatgcttc |
| aaaggtcaaa cattacaaaa gctattagtag ttgttttgtt tgtttttgag actgagtctc | actttatcac ccagactggc gtgcagtggc actatcttgg ctcatgtcaa cctctgcctc | ccaggtcagc ctcccaagta gctgggatta caccaccatg ccagctact aaaaatactt |
| gtattttttag tagagacggg gtttcaccat gttgaccagg ctggtcttga actcctgacc | tcaagtgatc ttccggcctc agcctcccaa agtgcctggat tacaggcgtg agccactgag | ccagccagca ttagtaattt ttaaaaaac tttatcagta ttttaaaat gttaatgcag |
| gagaaaaaat atcacaaactc tatggaaaaat gacatttcca ttbgccttat tgcctactta | agctctttaa atcaccatct tccctatttc | |
| NP_004092.1 | NP_004101 | NP_004092.1 |
| Proteinase-Activated Receptor 3 | Proteinase-Activated Receptor 3 | Proteinase-Activated Receptor 3 |
| 301 | 302 | 302 |

| | | | | | | |
|-----|------|--|-------------|--|---|--------------|
| 303 | 4090 | G Protein- Coupled Receptor GPR17 | NM_005291 | KASLLILVIF TICFAPSNI I LIIHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK | ccgacaccca cggcgagaga tcacctgctg cccgcagac ccctgtccct tcctcccgga A ccagcagcta gaggatgtcc aaacggagtt ggtgggtggt atccagaag cccccaagag agatgtgtgaa actctcagc tctgactcca gccaaagcat gaatggcctt gaagtgtctc cccaggtct gatcaccaac ttctccctgg ccacggcaga gaaatgtggc caggagacgc cactggagaa catgtctgttc gcctccctct accctcttga ttttatcctg cgttttagttg gcaataacct ggctctgtgg cttttcatcc gagaccaca gtccgggacc cgggccaaag tgttccctgat gcactgtggc gtggccgact tgtcgtgctg gctggctcctg cccaccgcgc tgggtaccca cttctctggg aaccactggc cattedggga aatcgcattg cgtctcaccg gcttccctct ctacctcaac atgtacgcca gcattctact cctcacctgc atcagcgccg accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgagg cccctctacg cacacctggc ctgtgccttc ctgtgggtgg tgggtgctgt ggccatggcc cgcgtgctgg tgagcccaca gaccgtgcag accaaccaca cgggtgtctg cctgcagctg tacccggaga aggctcccca ccatgcccgt gtgtccctgg cagtggcctt caccttccg ttcatacca cggtcacctg ctacctgtg atcatccga gcttgcgga gggcctgctg gtggagaagc gcctcaagac caaggcagt cgcctcgtct acgtgctga ctaccgcgc catggggcct tcgtgcccta ccaagtcaac cgtccgtct acgtgctga ctaccgcgc catggggcct cctggccac cagcgcac ctggccctgg caaccgcct cactcctgc ctaccagcc tcaacggggc actcgaccct atcatgtatt tcttctgtgg tgagaagttc cgcacgccc tgtgcaactt gctctgtggc aaaggctca agggccgc cccagcttc gaagggaata ccaacgagag ctgctgtagt gccaagtac agctgtgagc gggggggcgt gtccaggccg agcgcagact gtttaggact cagcagacc agcaaggc atctgccc tccccagcca cctccccagc aagcaacctg aaatctcagc agatgccac cattedtcta gatcgccctag tctcaaccca taaaaggaa gaactgaca agggatcca tcggccacc ctctgcaggg gcttgtgat gctacaatgg ctctagaca ctcaacgact tcatctgtg caggagaga ggaggccgga agaacaacc ctgaacaatg gaggccttct tttcccgta ggtcccagc ctccttccc ctacagaatc gctcattggc gagctcagc agaaagacc tgaaggcagc ctgcaaatga cccagaagag ggacctggga gctcctgtg ggacggggag gtagtctcaa tactccttg cagcgcaag tactctagt cccctctgta gtgcctctg cagacaca ctgctctgat tgaagagaca caggccacac atttcaggct ggttgcagc ggacgtcagc actcacggcc tgcggggact cagcacagct ctggattctg gatctcctc gctgtaacc cacgcacaag cctgcaacc cagactcctc ttgacaggct cccaggcctc ccagtccctg acaagcatgt gactgcagg gagctcagct caggccaggg ctgggctgtg cactgcctc ccactgacc agaccactt cctccagaga ggcctctctc cgcctgagct atttccctt ctagtgtgca gatatttccc taacatgtcc tttttgtat ttgtttgtac ggaccataa tataactgta gctttaagac taaaaaaa | Homo sapiens |
| 304 | 4090 | G Protein- Coupled Receptor GPR17 | NP_005282.1 | LEASFYLLDF ILAIVGNTLA LMLFIRDHKS GTPANVFLMH LAVADLSCVL VLPTRLVYHF SGNHWPFGEI ACRLTGFLFY LNMYSIYFL TCISADRFLA IVHPVKSLKL RRLYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVAF FPFITTVTCY | GLEVAPPGLI TNFSLATAEQ CGQETPLENM P GTPANVFLMH LAVADLSCVL VLPTRLVYHF TCISADRFLA IVHPVKSLKL RRLYAHLAC QLYREKASHH ALVSLAVAF FPFITTVTCY | Homo sapiens |

305 4254 Rhodopsin NM_000539
 LLIIRSLRQG LRVEKRLKTK AVRMIQIVLA IFLVCFVPH VNRSVVVLHY RSHGASCATQ
 RILALANRIT SCLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGPPP SFEGKTNES
 LSAKSEL
 agagtcattcc agctggagcc ctgagtggct gagctcaggc cttgcagca tcttgggtg A
 ggagcagcca cgggtcagcc acaaggcca cagccatgaa tggcacagaa ggcctaact
 tctactgccc cttctccaaat gcgacgggtg tggtaacgag ccccttcgag taccacagt
 actacctggc tgagccatgg cagttctcca tgcctgcgcg ctacatgttt ctgctgctg
 tgcctggctt ccccatcaac ttcctcagc tctactcac cgtccagcac aagaagctgc
 gcacgctct caactacatc ctgctcaacc tagccgtggc tgacctcttc atggtcctag
 gtggcttcac cagcaccttc tacactctc tgcattgata cttcgtcttc gggccacag
 gatgcaattt ggaggccttc ttggccacc ttggcgtgga aattgcccgtg tggctcttgg
 tggctcctgg catcgagcgg tactgtgtgg tctgtgaagcc catgagcaac ttcgcttcg
 gggagaacca tgcctatcg ggcgttgcct tcacctgggt catggcgtg gctgcgccc
 caccctcact cgcggcgtgg tccaggatca tcccgaggg cctgcagtc tctgtggaa
 tgcactacta cagctcaag cgggaggtca acaacagatc ttttgcctc tacatgtctg
 tggctcaatt caccatccc atgattatca tcttttctg ctatggcag ctcgtcttca
 ccgtcaagg ggcgcgtgc cagcagcagg agtcagccac cacacagaa gacagaaagg
 aggtcacccg catggtcatc atcatgttca tgccttctc gatctgctgg gtgccctacg
 ccagcgtggc attctacatc ttacccacc agggctccaa cttcgggtccc atctcatga
 ccattcccag gtcttttggc aagagcgcg ccactatcaa cctgtctatc tatatcatga
 tgaacaagca gtcccggaac tgcattgtca ccacctctg ctggcgcaag aaccactgg
 gtgacgatga ggcctctgct accgtgtcca agacagagac gagccaggtg gcccgccct
 aagacctgc taggactctg tggcgacta tagggtctc ccatccctc cacttcccc
 cagccacagc catcccaca ggagcagcgc ctgtcagaa tgaacgaagt cacataggct
 ccttaatttt tttttttttt ttaagaata attaatgagg ctctcactc acctgggaca
 gcctgagaag ggacatccac caagacctac tgatctggag tccacgttc ccaaggcca
 gcgggatgtg tgccctcctc cctcccaact catcttcag gaacacgagg attcttgctt
 tctggaaaag tgtcccagct tagggataag tgtctagcac agaatggggc acacagtagg
 tgcttaataa atgctggatg gatgcaggaa ggaatggagg aatgaatggg aaggagagac
 atatctatcc tctcagacc tgcagcagc agcaactcat acttggttaa tgatatggag
 cagttgtttt tccctccctg ggcctcactt tctctccta taaaatggaa atccagatc
 cctggtcctg ccgacacgca gctactgaga agacaaaag aggtgtgtgt gtgtctatgt
 gtgtgtttca gcactttgta aatagaaga agctgtacag attctagtta atgttgtgaa
 taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt
 ttgagattgg gcattcagat gatggggttt caccacaact tggggcaggt ttttaaaaat
 tagctaggca tcaaggccag accaggcctg ggggttgggc tgtaggcagg gacagtcaca
 ggaatgcagg atgcagtcac cagacctgaa aaaaacaac tgggggaggg gacaggtgaa
 ggcacaattc ccaatgaggg tgagattggg cctgggggtct caccctagt gtggggccc
 aggtcccggt cctcccttc ccaatgtggc ctatggagag acaggccttt ctctcagcct
 ctggaagcca cctgctcttt tgctctagca cctgggtccc agcatctaga gcatggagcc
 tctagaagcc atgctcacc gccccacattt aattaacagc tgagtccctg atgtcatcct

Homo
sapiens

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|-----|------|--|-------------|---|--------------|
| 306 | 4254 | Rhodopsin | NP_000530.1 | <p>tactcgaaga gcttagaagc aagagtgagg aaattccact ggccctacct tccttgggga</p> <p>tggtcatggg cccagtttc cagtttccct tgccagacaa gcccatcttc agcagttgct</p> <p>agtccattct ccattctgga gaattctgtc caaaaagctg gccacatctc tgagggtgca</p> <p>gaattaagct gcctcagtaa ctgctccccc ttctccatat aagcaaaagcc agaagctcta</p> <p>gctttaccga gctctgcctg gagactaagg caaattgggc cattaagagc tcagctccca</p> <p>tggttggtatt aacgggtggtg gggtttgttg ctctcacact ctatccacag gatagattga</p> <p>aactgccagc ttccacctga tccctgaccc tgggtgacct ggattgagca atgagcagag</p> <p>ccaagcagca cagagtcacc tggggctaga ggtggaggag gcagtcctgg gaatgggaaa</p> <p>aacccca</p> | Homo sapiens |
| 307 | 4284 | Retinal G Protein-Coupled Receptor RPE | NM_002921 | <p>agagacagct gggccactgg cagtgaggga gagtggagat ggcagagacc agtgcctgc A</p> <p>ccactggctt cggggagctc gaggtgctgg ctgtggggat ggtgctactg gtggaagctc</p> <p>tctccggctc cagcctcaat accctgacca tcttctcttt ctgcaagacc ccggagctgc</p> <p>ggactccctg ccactactg gtgctgagct tggctcttgc ggacagtggg atcagcctga</p> <p>atgccctcgt tgcagccaca tccagccttc tccggcgtcg gccctacggc tcggacggct</p> <p>gccaggctca cggcttccag ggcttttgga cagccttggc cagcatctgc agcagtgcag</p> <p>ccatcgcatg gggcggttat caccactact gcacccgtag ccagctggcc tggaaactcag</p> <p>cagctctctc ggtgctcttc gtgtggctgt cttctgcctt ctgggcagct ctgcccttc</p> <p>tgggttgagg tcaactatgac tatgagccac tggggacatg ctgcacctg gactactcca</p> <p>agggggacag aaacttcacc agcttctctc tcacctatgc cttcttcaac ttgcccatgc</p> <p>ccctcttcat cagatcact tctacagtc tcatggagca gaaactgggg aagagtggcc</p> <p>atctccaggt aaacaccact ctgccagcaa ggacgtgctg gtcggctgg ggccctatg</p> <p>ccatcctgta tctatacgca gtcacgcag acgtgacttc catctcccc aaactgcaga</p> <p>tggtgcccgc cctcattgcc aaaatggtgc ccacgatcaa tgccatcaac tatgccctgg</p> <p>gcaatgagat ggtctgcagg ggaatctggc agtgcctctc accgcagaag agggagaag</p> <p>accgaaccaa gtgagcctgc caccctggag ttagccccag gccaggaggc tgttccagga</p> <p>gtcctgcccc gcagcctcgg tggccaaagc cagacactca cccaccttc ccagtggccc</p> <p>cgtggatcct ggtcctaggc tggacacagg attcagaaa acaccaggct gcacagaaa</p> <p>agccagatgg acctgagtgt cggtcacagc cccctacact caagctgag aggcctcagg</p> <p>aaagtcatc ctttttaaaa ataataata atgtaagggg gtacagtga gttttgttac</p> <p>atgtagatag tgcctagtgg tgaagtctgg gcttttagtg taacctcac cctaataata</p> <p>tacgttgtag ccattaaagt atttctcat cctcacccc tccaccttg tcaccttct</p> <p>gagttctcaa tgtctattat tccacactcc atgtccacgt gtacacatta tttagctccc</p> <p>acttacaagt gagaacatgt ggtatttgac ttcca</p> | Homo sapiens |
| 308 | 4284 | Retinal G Protein- | NP_002912.1 | <p>MAETSAALPTG FGLEVLAVG MVLLVEALSG LSINTLTIFS FCKTPELRTP CHLLVLSLAL P</p> <p>ADSGISLNAL VAATSSLRR WPGSDGCOA HGFQGFVTAL ASICSSAIA WGRYHYCTR</p> | Homo sapiens |

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|-----|-------------------------|-------------|---|-----------------|
| 309 | Coupled Receptor RPE | NM_002980 | <p>SQLAWN SAVS LVLFWLSSA FWAALPLL GW GHYDEPLGT CCTLDYSKGD RNFTSFLFTM SFENFAMPLF ITITSYSIME QKLGKSHLQ VNTTLPARTL LLGWGYAIL YLYAVIADVT SISPKLQMPV ALIAKMVETI NAINYALIGNE MVRGIGWQCL SPQREKDRY K acgaggccgg ccggagccgg ggaacctgcg cggggggcgtg agctcccgag cggggcagagg A gcacgggcag gcggagcgtg ggggcccctc ggggaacgtg cgggacccat gcgtccccc ctgtgcgcgc cgtgcagca gctactactg cgggtgctgc tgcctgcgc cgcgcactcg actggagccc tccccgact atgtgacgtg ctacagtgct tggggaaga gcaagaccag tgctgcagg aactctccag agagcagaca gaagacctgg gcaagagca gccagtgcc ggttgtaggg gtagtgagg caacataagc tgctggccct ctctgtgccc gggcgggatg gtggaggagg aatgcccgg atctcccg atgtccaca gcagaaatgg ttcttggttc cgaactgca cacaggatgg ctggtcagaa acctcccca ggcctaatct ggcctgtggc gttaatgtga acgactctc caacgagaag cggcaactct acctgtgaa gctgaaagtc atgtacaccg tgggctacag ctctccctg gtcagtctcc tggtcgccc ttgcatctc tgtgctttcc ggaggctcca ctgcactgc aactacatcc acatcacct gttcgtgtcc ttcatcttc gtgcccgtgc caacttcac aaggagccg tgctcttctc ctcatgatg gtcacctact gcgacccga caggcggggc tgaagcgtg tcatggtgct gtccagtag tgcatactgg ccaactact ctggctgctg gtggaaggcc tctacattca cacactctc gccatctct tcttctctga aagaaagtac ctccagggat ttgtggcatt cggatggggg tctccagcca tttttgttg tttgtgggt attgcagac acttctgtga agatgtggg tgctgggaca tcaatgcca cgcatactc tggtagatca ttctggttcc tgtgatctc tccatctga ttaattctat cctttcata aacattctaa gaatcctgat gaaaaactt agaaaccaa aaacaaagg aaatgaagtc agccattata agcgcctggc caggtccact ctctgctga tccccctct tggcatccac tacatgctct tgccttctc ccagaggag gctatggaga tccagctgtt ttttgaacta gccctggct catccaggg actggtggg gccgtctct actgctctt caatggggag gtgcagctgg aggtcagaa gaagtggcag caatggcacc tccgtgagtt cccactgcac cccgtggct cctcagcaa cagacccaa gccagccact tggagcagag ccagggcacc tgcagaccca gcatcatctg agagctgga gcagggtcac ccaggacag agaccaagag aggtctgcg aagctgggc actgctgtg gacagccagt ctcccaagca gacacctgt gctctcttc agctgaagat gccctcccc agccttgga ctctccgaa gggatgtgag gcactgtgg gcaggacaa ggcctgggat ttggttctgt tgctctctg ggaagagaag ttcaagggtc ccaagaggg acaggaaat aaatggtgct tggatgaga ttc</p> | Homo sapiens |
| 310 | Secretin Receptor | NP_002971.1 | <p>MRPHLSPPIQ QLLLPVLLAC AAHSTGALPR LCDVLQVWE EQDCLQELS REQTDLGTE P QVPVGCENW DNISCWPSV PGRMVVECP RFLRLMTRN GSLFRNCTQD GWSETPRPN LACGVNND SNEKRHSYLL KLRVMYTVGY SSSLVMLVA LGILCAFRRL HCTRNYIHMH LFVSFILRAL SNEFIKDAVLF SSDDVTYCDP HRAGCKLMV LFQYICIMANY SWLVEGLYL HTLLAISFFS ERKYLQGFVA FGWGSPIFV ALWALARHFL EDVGCWDINA NASIWWIIRG PVLSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLIPL FGIHYIVFAF SPEDAMEIQ LFFELALGSFQ NSTKASHLEQ SQGTCRTSII</p> | Homo sapiens |

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|-----|------|------------------------------------|-------------|---|-----------------|
| 311 | 4480 | Somatostatin Receptor Type 1 | NM_001049 | atgttcccca atggcacccg ctctctctct tctctctctc cttagccccc ggggcccggg ctagcccccag cccggggcagc A tgccggcgaag gcggcgagag caggggccc caggcccggg ctgcccaggg catggagggag ccaggcggaat atgcgtccca gaacgggacc ttgagcggag gccaggggag cggccatctcg atctctttca tctactccgt ggtgtgctcg gtggggctgt gtgggaactc tatggtcac tacgtgatcc tgcgctatgc caagatgaag acggccacca acatctacat cctaaatctg gccattgctg atgagctgct catgctcagc gtgccccttc tagtccctc caggttctg cgccactggc ccttcggctg ctgctctgc ctcagctgag accgtacctg cgcggtcaac atgttcacca gcatctactg tctgactgtg ctccagctgg accgtacctg ggccgtgggtg catcccatca agggcgcccg ctaccgcgg cccaccgtgg ccaaggtagt aaacctgggc gtgtgggtgc tategctgct cgtcatctcg cccatcgctg tctctctcg caccgggccc aacagcgacg gcacgggtgc ttgcaacatg ctcatgccag agcccgtca acgtggctg gtgggcttcg tgtgtacac atttctcatg ggtctctgc tggccgtggg ggctatctgc ctgtgctacg tgctcatcat tgctaagatg cgcattggtg cctcaaggc cggctggcag cagcgcaagc gctcgagcg caagatcac ttaattggtg tgatgggtgt gatgggttt gtcatctgct gtagccttt ctacgtggtg cagctgggtt acgtgttgc tgagcaggac gacgccacgg tgagtcagct gtcggctcgc ctcggctatg ccaacagctg cgccaaaccc atctctctatg gcttctctc agacaacttc agcgcctct tccaaacgat cctatgcctc agctggatgg acaacgcgc ggaggagcgg gttgactatt agccaccgc gctcaagagc cgtgcctaca gtgtggaaga cttccaaact gagaacctgg agtccggcg cgtcttccgt aatggcacct gacgtcccg gatcacgac ctcga | Homo sapiens |
| 312 | 4480 | Somatostatin Receptor Type 1 | NP_001040.1 | atgggacatp gacgtcccg gatcacgac ctcga mfpgngtassp ssspspssg CGEGGSGRGP TATNIYILNL AIADELLMLS VPFLVTSTLL P ISFIYSWCL VGLCGNSMVI VVILRYAKMK GAGNIAAVV HPKAAARYRR PTVAKVNLG RHWFFGALLC RLVLSDAVN MFTSIYCLTV LSVDRYAVV VGFVLYTFLM GFLLPVGAIC VWVLSLLVIL PIVVFSRTAA NSDGTVACNM LMPEAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLIIAKM RMVALKAGWQ QPKRSERKIT LMVMMVMVF VICWMPFVW QLVNVFAEQD DATVSQLSVI LGYANSCANP ILYGFLSDNF KRSFQRIICL SWMDNAAEEP VDYATATLKS RAYSVEDFQP ENLESQGVFR NGTCTSRITT L | Homo sapiens |
| 313 | 4481 | Somatostatin Receptor Type 2 | NM_001050 | atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtgggtgc aaccaacacc tcaaacccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatcatggg gttgtgtggc aacacacttg tcaattatgt cactctccgc tatgccaaga tgaagacct caccacatt tacatccatca acctggccat cgcagatgag ctcttcacgc tgggtctgccc tttcttggt atgcagggtg ctctggtcca ctggcccttt ggcaaggcca ttgcccgggt ggtcatgact gtggatggca tcaatcagtt caccagcatc tctgctcga cagtcagtag catcgaccga tacctggctg tggctccacc catcaagtgc gcaagtga ggagacccc gacggccaag atgatcacca tggctgtgtg gggagtctct ctgctggtga ccatcaactg catgatata gctgggctcc ggagcaacca gtgggggaga agcagctgca ccttggccat cctggatgaa tctggggctt ggtacacagg gttcatcatc tacatttca tctgggggtt cctggtaacc ctcaccatca tctgtctttg ctactgttc atkatcatca agtggaagtc cctgggaatc cgagtgggct cctctaagag gaagaagtct gagaagaagg taccggaaat ggtgtccatc gtgggtggctg tcttcatctt ctgctggctt ccttctaca tattcaactg tcttccgctc | Homo sapiens |

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|-----|------|--|--|--------------|
| 314 | 4481 | Somatostatin NP_001041.1 Receptor Type 2 | <p> tccatggcca tcagcccccac ccagccctt ttgactttgt ttgactttgt ggtggtcctc acctatgcta acagtgtgc caaccctatc ctatatgcct tctgtctga caacttcaag aagagcttcc agaattgctt ctgttgggtc aagtgagcg gcacagatga tggggagcgg agtgcagta agcaggacaa atccgggctg aatgagacca cggagaccca gaggacccctc ctcaatggag acctcaaac cagtattctga MDMADEPLNG SHTWLSIPFD LNSGVSTNT SNQTEPYDYL TSNAVLTFIY FVVCILGLCG P NTLVIYVILR YAKMTITNI YILNLAIADE LFMLGLPFLA MQVALVHWPF GKALCRVAMT VDGINQFTSI FCLTVMSIDR YLAVVHPIKS AKWRPRTAK MITMAVWGS LLVILPIMIY AGLRSNQWR SSGTINWPGS SGAWYTGFI YTFILGFLVP LTIICLCYLF IIKVKSSGI RVGSSKRKKS EKKVTRMVS VVAVFICWL PFYIFNVSSV SMAISPTPAL KGMFDFVWVL TYANSCANPI LYAFLSDNFK KSFQVLCIV KVSCTDDGER SDSQDKSRL NETTETQRTL LNGDLQTSI </p> | Homo sapiens |
| 315 | 4482 | Somatostatin NM_001051 Receptor Type 3 | <p> atggacatgc ttcatccatc atcgtgtgctc acgacctcag aacctgagaa tgcctcctcg A gcctggcccc cagatgccac cctgggcaac gtgtggcgg gcccaagccc ggcagggctg gccgtcagtg gcgttctgat cccctggtc tacctggtg tgtgctggtt ggcctgctg ggtaaactgc tgtgtcctga tgtgtcctg cggcacacgg ccagcccttc agtcaccaac gtctacatcc tcaacctggc gtgtggcgcac gagctcttca tgtgtgggct ccccttccctg gccgccaga acgacctgtc ctactggccc ttcggtccc tcatgtgccc cctggtcatg gcgtgtggtg gcataacca gttcaaccagc atattctgcc tgaactgtcat gacgttggag cgctacctgg ccgtgtgata tcccaaccgc tgggcccgtt ggcgcacagc tccggtggcc cgcacggtca gcgcggctgt gtgggtggcc tcaggcgttg tgggtgctgc cgtgtgtgctc ttctcgggag tgcgcgcggc catgagcacc tgcacatgc agtggccccg gccggcggcg gcctggcgag ccggttctcat catctacacg gccgacctgg gcttcttcgg gccgtgctg gtcatctgcc tctgctacct gctcatctg gtgaagtgcc gctcagctgg gcgcggggtg tgggacctc cgtgccagcg gcgcggcgc tccgaacgca ggttcacgcg catggtggtg gccgtggtgg cgctcttctg gctgtgctgg atgccccttc acgtgctcaa catcgtcaac gtggtgtgcc cactgcccga ggagcctgcc ttctttgggc tctacttctt ggtgtgtggc ctgcccctatg ccaacagctg tgccaacccc atcttttatg gtttctctc ctaccgcttc aagcagggct tccgagggt cctgtgctgg cctcccgcgt gtgtgcgcag ccaggagccc actgtggggc ccccgagaa gactgagga gaggatgagg aggagaggga tggggaggag agcaggagg ggggcaagg gaaggagatg aacggccggg tcagccagat caccagcct ggcaccagcg ggcaaggagc gccgccagc agagtggcca gcaaggagca gcagctccta ccccagagg cttccactgg ggagaagtc agcacatgc gcatacagta cctgtag MDMLHPSVS TTSEPNASS AWPPDNLGN VSAGSPAGL AVSGVLIPLV YLVVCVVGLL P GNSLVIYVVL RHTASPSVTN VYILNLALAD ELFMGLPFL AAQNALSYWP FGSLMCRLLM AVDGINQFTS IFCLTVMSVD RYLAVVHPT RYTSAAVWA SAVVLPVWV FSGVPRGMST CHMQWPEPAA AWRAGFIYT AALGFFGLL VICLCYLLIV VKVRSAGRRV WAPSCQRRR SERRVTRMV AVVALFVLCW MPFVYLVIN VVCPLEPEA FGLYFLVWA LPYANSCANP ILYGFLSYRF KQGFRLLR PSRRVRSQEP TVGPPEKTEE EDEEEDGEE SREGGKEM NGRVSIQTP GTSGQERPPS RVASKEQQLL PQEASTGEKS STMRLSYL </p> | Homo sapiens |
| 316 | 4482 | Somatostatin NP_001042.1 Receptor Type 3 | | Homo sapiens |

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|-----|------|--|---|--------------|
| 317 | 4483 | Somatostatin NM_001052 Receptor Type 4 | atgagcgccc cctcgacgt gcccccggg ggcgaggaag ggctggggac ggctggggcc A tctgcagcca atgccaatag cgctcggcg gagcgagag gagcggtggc gggcgccggg gacgcgggg cgcggggcat ggtcgctatc cagtcatct acgcgtgggt gtgcctgggtg gggctggtg gcaacgccct ggtcatcttc gtgatecttc gctacgcca gatgaagacg gtacaccca tctactgtct caactggcc gtacgcagc agctcttcat gctgagcgtg cccttcgtg cctcgtcggc cgccctggc cactggccct tggctccgt gctgtccgc gcgtgctca gctcgacgg cctcaacatg ttacacagc tcttctgtct caccgtgctc agcgtggacc gtacgtggc cgtgggtgac cctcgtcgcg cgcgaccta ccggcgggcc agcgtggcca agtcatcaa cctggggtg tggctggcat cctgttgggt cactctccc atcgccatct tcgcagacac cagaccggct cgcgcgggcc agcgtggc ctgcaacctg cagtggccac accggcctg gtcgcgatc ttctgtgtct acatttctt cctgggcttc ctgctgccc tgcctggccat tggcctgtg tactgtctca tctggggcaa gatgcggcc gtggccctg cgctgggtg gcagcagcg agcgtctcg agaagaaat caccagctg gtgctgatgg tgcgtgtcgt cttgtgtct tgcgtgatgc ctttctact ggtcagctg ctgaacctg tgcgtgaccag ccttgatgc accgtcaacc acgtgtccct tatectcagc tatgccaaca gctgcgcca cctattctc tatggcttc tctcgacaa ctccgcga tcttccagc ggttctctg cctgcgtgc tgcctcctg aggtgctgag aggtgctgag gaggagcccc tggactacta tgcactgct ctcaagaca aggtggggc aggtgcatg tgccccccac taaaatgcca gcaggagcc ctgcaaccag aaccggcg caagcgcac ccctcaccac ggaccacc cttctga | Homo sapiens |
| 318 | 4483 | Somatostatin NP_001043.1 Receptor Type 4 | MSAPSTLPF GEELGTAMP SAANASSAPA EAEEAVAGPG DARAAGMAI QCIYALVCLV P GLVGNALVIF VILRYAKMT ATTIIYLNLA VADEFMLSV PFVASSAALR HWPFGSVLCR AVLSVDGLNM FTSVFLTVL SVDRYAVVH PLRAATYRPP SVAKLINLGV WLASLLVLP IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMR VALRAGWQOR RRSEKKITRL VLMVAVFVL CWMPFYVVL LNLVVTSLDA TVNHVSLILS YANSCANPIL YGFLSDNFR SFQRLVLCRC CLLEGAGGAE EEPLDYVATA LKSKGGAGCM CPPLKQQEA LQPEPGRKRI PLRTTTF | Homo sapiens |
| 319 | 4484 | Somatostatin NM_001053 Receptor Type 5 | atggagcccc tgttccagc ctccagccc agctggaacg cctctcccc gggggctgcc A tctggaggcg gtgacaacag cagcgtggtg ggcccgccg cctcggcagg ggcggggcg gtgctggtg cctgctgta cctgctggtg tgcggtggcg ggctggggcg gaacacgctg gtcatctacg tgggtgctg cctcgccaag atgaagacg tcaccaaat ctacattctc aacctggcag tggcgcagct cctgtacatg ctggggctgc ctttctctgc cagcagaac gccggtctt tctggccctt cgcccccct cgtgcccgc tggatcatgac gctggacggc gtcaaccagt tcaccagtgt cttctgctg acagtcatga gcgtggaccg ctacctggca gtggtgcacc cgtgagctc ggccgctgg cgcccccgc gtgtggccaa gctggcgagc gccgggccc ggtcctgtc tctgtgcatg tcgctccgc tcctggtgtt cgcgacgtg caggaggcg gtacctgcaa cgccagctgg ccggagcccg tggggctgtg ggccgcccgc ttcatcatct acacggcgt gctgggcttc ttcgcgcgc tgcgtgtcat ctgctgtgc tacctgtca tctggtgtaa ggtgaggcg gcggcgctgc gcgtgggctg cgtgcggcg cgctcggag ggaagtgac gcgcatggtg ttggtggtg tgcgtggtt tgcgggatgt tggctgccc tctcaccgt caacatcgt aacctggcg tggcgctgc ccaggagccc | Homo sapiens |

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|-----|------|--|---|--------------|
| 320 | 4484 | Somatostatin NP_001044.1 Receptor Type 5 | MEPLFPASTP SWNASSPGAA SGGDNRTLV GPAPSAGARA VLPVLYLLV CAAGLGNTL P VIYVLRFAK MKTVTNIYIL NLAADVLYM LGLPFLATQN AASFWEFGPV LCRLVMTLDG VNQFTSVFCL TMSVDRYLA VHPPLSSARW RRPVRVAKLAS AAMVLSLCM SLPLLVFADV QEGGTCSASW PEPVGLWGV FIIYTAVLGF FAPLLVICLC YLLIVVKVRA AGVRVGCVR RSEKVTVMV LVVLVFAAC WLPFFTVNIV NLAVALPOEP ASAGLYFFV ILSYANSCAN PVLVGFSLDN FRQSFQKVL LKSGSGAKDA DATEPRDRI RQQEATPPA HRAANGILMQ TSKL | Homo sapiens |
| 321 | 4552 | Tachykinin Receptor 1 | <p>aattcagagc caccgcgggc agcggggcag tgcattcaga agcggttata tctgagcgc A</p> <p>cagttcagct ttcaaaaaga gtgctgccc taaaaagcct tccacctcc tgtctgcttt</p> <p>agaaggacc tgagcccag gcgcagcca caggactctg ctgcagaggg gggttgtgta</p> <p>cagatagtag gctttacgcc tagcttcgaa atggataacg tctcccggt ggaactcagac</p> <p>ctctcccaa acatccac taacactcg gaaccaatc agttcgtgca accagcctgg</p> <p>caaatgtcc ttggggcagc tgcctacacg gtcattgtgg tgacctctgt ggtgggcaac</p> <p>gtggtagtga tgtggatcat cttagccac aagaatga ggacagtgc gaactatttt</p> <p>ctggagaacc tggccttcgc ggagcctcc atggctgcac tcaatcacgt ggtgaacttc</p> <p>acctatgctg tccacaacga atggtactac ggcctgttct actgcaagtt ccacaacttc</p> <p>ttcccacg cgctgtctt cgccagtac tactccatga cggctgtggc ctttgatagg</p> <p>tacatggcca tcatacatc cctccagccc cggctgtcag ccacagccc caaagtggtc</p> <p>atctgtgtca tctgggtcct ggcctcctg ctggccttc ccagggcta ctactcaacc</p> <p>acagagacca tgcccagcag agtcgtgtg atgctcgaat ggccagagca tccgaacaag</p> <p>atttatgaga aagtgtacca catctgtgt actgtgtga tctacttct cccctgctg</p> <p>gtgattggct atgcatacac cgtagtggga atcacatat gggccagtga gatccccggg</p> <p>gactcctctg accgtacca cgagcaagtc tctggcaagc gcaagtggt caaaatgatg</p> <p>attgtcgtgg tgtgcacct cgccatctgc tggctgccct tccacatctt ctctcctcg</p> <p>ccctacatca accagatct ctacctgaag aagtttatcc agcaggtcta cctggccatc</p> <p>atgtggctgg ccatgagctc caccatgtac aacctatca tctactgctg cctcaatgac</p> <p>aggttcctgc tgggcttcaa gcctgcttc cggtgctgcc ccttcacag cgccggcgac</p> <p>tatgaggggc tggaaatgaa atccaccgg tatctccaga ccagggcgag tgtgtacaaa</p> <p>gtcagccgcc tggagaccac catctccaca gtgtggggg ccacagagga ggagccagag</p> <p>gacggcccca aggccacacc ctgctcctg gactgacct ccaactgctc ttcacgaagt</p> <p>gactccaga ccatgacaga gacttccag tctctcca atgtgtctc ctaggccaca</p> <p>gggcccctgg caggtgcagc cccactgcc ttgacctgc cctcttcat gcattgaaat</p> <p>tccttcatc tggaaacctc agaaacaccc tcaactggg acttgcaaaa agggtcagta</p> <p>tgggttaggg aaaaattcc atccttagt caaaaaatct caattcttc ctatctttgc</p> <p>cacctcatg ctgtgtgact caaaccat cactgaact tgcagacct gtaaaaaaaa</p> <p>aggtcgacc agctttctt caagagccca atgcattcca tttctggag tgactttggc</p> | Homo sapiens |

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|-----|------|--------------------------|-------------|--|--|-----------------|
| 322 | 4552 | Tachykinin Receptor 1 | NP_001049.1 | tgcatgcgag tgctcattc aggatg | MDNVLPVDS LSPNISTNTS EPNQFQVPAW QIVLWAAAYT VIVVTSVGN VVMWIIIAH P | Homo sapiens |
| | | | | KRMRTVTNYF IVNLAFEAAS MAAENTVVNF TYAVHNENY GLFYCKFHF FPIAAVEFASI | | |
| | | | | YSMTAVAFDR YMAIIHPLQ RLSATATKV ICVIWLALL LAFPGYYST TETMPSRVVC | | |
| | | | | MIWPEHPNK IYEKVYHICV TVLIYFLPL VIGYAYTVVG ITLWASEIPG DSSDRYHEQV | | |
| | | | | SAKRKVVRMM IVVCTFAIC WLPFHIFLL PYINPLLYK KFIQVYLAI MMLAMSSIMY | | |
| | | | | NPIIYCCLND RFLGFKHAF RCCPFISAGD YEGLEMKSTR YLQTOGSVYK VSRLETTIST | | |
| | | | | VVGAHEEPE DGPKATPSSL DLTSNCSSRS DSKTMTESFS FSSNVL | | |
| 323 | 4687 | Thrombin Receptor | NM_001992 | ggcgggggc gcacagagcc agaggggct gcgagcggc gctgagggac cgcggggagg A | Homo sapiens | |
| | | | | ggcgcccgag cggctccagc gcagagactc tcactgcac cggagggcc ctctcgcct | | |
| | | | | ccgcgcgcgc gacgcgcgc cccagtcgc cccgcgcgc ctaacgcgc cagacacagc | | |
| | | | | gctgcgcgag ggtcgctgg accctgatc taccgtggg caccctgac tctgcctgcc | | |
| | | | | gcgaagaccg gctcccgac ccgcagaaat cagagagagc ggtgaagcgc agcagcccca | | |
| | | | | ggcggggcag cctcccgag cagcgcgcgc cagagccgc gacaatggc ccgcggcgcc | | |
| | | | | tgctgctggt ggcgcctgc ttcagtcgt ggcgcgcgc gttgtctgc cgcaccgcgc | | |
| | | | | ccgcagggc agaatacaaa gcaacaaatg ccacctaaga tccccgtca tttcttctca | | |
| | | | | ggaaccccaa tgataaatat gaaccatttt gggaggatga ggagaaaaat gaaagtgggt | | |
| | | | | taactgaata cagattagtc tccatcaata aaagcagtc tctcaaaaa caacttctctg | | |
| | | | | cattcatctc agaagatgcc tccggatatt tgaccagctc ctggctgaca ctctttgtcc | | |
| | | | | catctgtgta caccggagtg tttgtagtca gcctccact aaacatcatg gccatcgttg | | |
| | | | | tggtcatcct gaaaatgaag gtcaagaagc cggcggtggt gtacatgctg cactggcca | | |
| | | | | cggcagatgt gctgtttgtg tctgtgctcc ccttaagat cagctattac ttttccggca | | |
| | | | | gtgattggca gtttgggtct gaattgtgc gcttcgtcac tgcagcattt tactgtaaca | | |
| | | | | gtacgcctc tatcttgctc atgacagtc taagcattga cccgtttctg gctgtggtgt | | |
| | | | | atcccatgca gtccctctcc tggcgtaact tgggaaggcc tctcttact tgtctggcca | | |
| | | | | tctgggcttt ggccatgca ggggtagtgc ctctcgtcct caaggagcaa accatccagg | | |
| | | | | tgcccggtct caacatcact acctgtcatg atgtgtcaa tgaacccctg ctgaaaggct | | |
| | | | | actatgccta ctacttctca gccttctctg ctgtcttctt ttttgtgccc ctgatcattt | | |
| | | | | ccacggctctg ttatgtgtct atcattcgat gtcttagctc ttccgcagtt gccaacgcga | | |
| | | | | gcaagaagtc ccgggctttg ttccgtgcag ctgctgtttt ctgcattctt atcatttgcct | | |
| | | | | tcggaccac aaacgtcctc ctgattgccc attactcatt ccttctcac acttccacca | | |
| | | | | cagaggctgc ctactttgccc tactctctct gtgtctgtgt cagcagcata agtctgtgca | | |
| | | | | tcgacccctt aatttactat tacgttctct ctgagtgcga gaggtacgtc tacagtatct | | |
| | | | | tatgtgcaa agaaagtcc gatcccagca gttataaacg cagtgggcag ttgatggcaa | | |
| | | | | gtaaaaatga tactgtctct agtaacctga ataacagcat atacaaaaag ctgttaactt | | |
| | | | | aggaataagg actgtggga ggttaaaaag aaaagttaa aacgtgaat aacctgagga | | |
| | | | | ttctattagt cccaccccaa actttattga ttacgttctt aaaacaacag atgtacgact | | |
| | | | | tgcatacctg ctttttatgg gagctgtcaa ccatgtattt ttgtcaatta ccagaaagat | | |
| | | | | aacaggacga gatgacgtg ttattccaag ggaattatgc caatgctaca gtaataaatg | | |
| | | | | aatgtcactt ctggatatag ctaggtgaca tatacatact tacatgtgtg tatatgtaga | | |

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|-----|------|---|-------------|---|
| 324 | 4687 | Thrombin Receptor | NP_001983.1 | <p>tgtatgcaca cacatatatt atttgcagtg cagtatagaa taggcacttt aaaaactctt tccccgcac ccagcaatt atgaaaaataa tctctgattc cctgatttaa tatgcaaaagt ctaggttggt agagtttagc cctgaacatt caagtgtgtt catcaacagt gagagactcc atagtttggt cttgtaccac ttttgcaaat aagtatttt tgaattgttt tgacggcaag gtttaagtta ttaagaggta agacttagta ctatctgtgc ttagaagttc tagtgttttc aattttaaac atatccaagt ttgaattcct aaaatratgg aaacagatga aaagcctctg ttttgatatg gtagtatatt tttacatttt acacactgta cacataagcc aaactgagc ataagtccct tagtgaatgt aggtggctt tcagagtagg ctattcctga gactgcatg tgtccgccc cgatgggga ctccaggcag cagacacatg ccaggggccat gtcagacaca gattggccag aaacttctct gctgagcctc acagcagtg gctggggcc actacattg ctccatctc ctgggattgg ctgtgaactg atcagtgtta ttagaaaaactg gcaaaagcaga atgtgatc ctaggaggtg atgacctga aagacttctc taccatctt aaaaacaacg aaagaaggca tggacttctg gatgccatc cactgggtgt aaacacatct agtagttgtt ctgaaatgtc agttctgata tggaaagcacc cattatgctg tgtggccact ccaataggtg ctgagtgtag agagtggat aagacagaga cctgcccctc agagcaaaagt agatcatgca tagagtgtaga tgtatgtgta taaaatatgt ttcacacaaa caagccctgt cagctaaaga agtttgaaca tttgggttac tattcttgt ggtataaact taatgaaaaa aatgcagtagc aggacatata ttttttaaaa taagtctgat ttaattgggc actatttatt tacaatgtt ttgtcgaata gatgtcga atcaggtttt ctttaagaa tcaatcatgt cagctgtgtt agaaaataca gaagaaaata gaattgacat tgaatcttag gaaaattatt ctataatttc catttactta agacttaatg agacttaaa agcatttttt aactcctaa gtatcaagta tagaaaatct tcattgaatt cacaagtaa tttggaatt aggttgaaac atatctctta tcttacgaaa aaatgtagc ggtggctcac gctgtaatc ccagcacttt gggaggctga taaaaggaga gccagggcgc ggtggctcac gacctgtaac cctgacacttt gggaggctga ggcgggtgga tcacgaggtc agggagatcga gacctcctg gctaacacgg tgaaccctg ctctactaaa aatgcaaaaa aaattagccg ggcgtgggtg caggcacctg tagtcccagc tactcgggag gctgaggcag gagactggcg tgaaccagg agcggacct ttagtgagc cgagatcgcg ccactgtgct ccagctggg caacagagca agactccatc tc KNESGLTEYR LVSINKSSPL QKQLPAFISE SARTRARRPE SKATNATLDP RSFLRNPND KYEPFWEDEE P Homo sapiens</p> |
| 325 | 4734 | Thyrotropin Releasing Hormone Receptor | NM_003301 | <p>tagcttcaag ccactgaaga tggaaaaaga gacagtcagt gaactgaacc aaacacagct A tcagccacga gcagtggttg ccttagaata ccaggtggct accatcttac ttgtactcat tatttggc ctgggcatg taggcaacat catggtagtc ctggtgtgca tgagaaccaa gcacatgagg accccacaa actgtacct ggtgagcctg gcagtagctg atctcatggt cttgggtggc gcaggcctcc ccaacataac agacagatc tacggttctt gggtctatgg</p> |

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|-----|------|---|-------------|---|-----------------|
| 326 | 4734 | Thyrotropin Releasing Hormone Receptor | NP_003292.1 | <p> cstatgttggg tgcctctgca ttacttaacct ccagttatttg ggaattaatg catcctcttg ttcaataaca gcctttacca ttgagaggtg catagcaatc tgtcacccca tcaaaagccca gtttctctgc acattttcca gagccaaaaa gattataatc ttgtctctgg ctttcacatc tctttactgt atgctctggt tcttcttgct ggatctcaat attagcaact aaaaagatgc tattgtgata tcctgtggtt acaagatctc caggaattac tactcaccta ttacctaata ggactttggt gtcttttatg ttgtgcaat gatcctggtt accgtctctt atggattcat agtagaatc cttttcttaa atcccatctt ttcagatgct aaagaaaaact ctaagacatg gaaaaatgat tcaaccatc agaacacaaa tctgaatgta aatacctcta atagatgttt caacagcaca gtatcttcaa ggaagcaggt caccaagatg ctggcagttg ttgtaattct gtttgccctt ttatggatgc cctacagac tctagtgtgt gtcaactcat ttctctccag tcctttccaa gaaaattggt ttttgctctt ttgcagaatt tgcatttatc tcaacagtgc catcaacctg gtgatttaca atctcatgtc ccagaaattc cgtgcagcct tcagaaaagct ctgcaactgc aagcagaagc caacagagaa acctgctaac tacagtgtgg ccctaaaatta cagcgtcatc aaggagtcag acctattcag cacagagctt gatgatata ctgtcactga cacttaacctg tctgccacaa aagtgtcttt tgatgacacc tgcttggtt ctgaggtatc ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaaagaa ttgagaatct gtgcagtcac caacaaaagg gagaacatgg ccaatagtc tatgtgaaga cagagcagat cagctcttgg caatgctcta acaaaccc </p> | Homo sapiens |
| 327 | 4944 | Angiotensin II Type 1 Receptor | NM_000685 | <p> LVLIICGLGI VGNIMWLVV MRTKHMRTPT P ITYLQYLGIN ASSCSITAF FPLDLNIST YKDAIVISCG FFLLDNLINIST YKDAIVISCG YKISRNYSY IYLMDFGVF VVPMILATVL YGFIARILFL PIPSDPKEN SKTWKNDSTH QNTNLNVNTS NRCFNSTVSS RKQVTKMLAV VVILFALLWM PYRTLWVNS FLSSPFQENW FLLFCRICIY LNSAINPVIY NLMSQKFRAA FRKLCNCKQK PTEKPANYSV ALNYSVIKES SEVSFSQS atctcgagct gcctctctgc caatgattcc agcgcctgac agccaggacc ccaggcagca A gcgagtgaaca ggacgtcttg accggcgcgc cgctagcagc tctgccgggc cgcgccggtg atcgatgggg agcggctgga gcggacccag cagtgaggg cgcacagccg ggacgcccag gcggcgggcg ggagaccgc accagcgcag ccggccctcg gcgggacgtg acgcagcgc cgggcgcgcg gtttgatatt tgacaaaattg atctaaaaatg gctgggtttt tatctgaata actcaactgat gccatcccg aagtcgggca ccaggtgtat ttgatatagt gtttgcaaca aattcgaccc agtgatcaa aatgattctc aactctcta ctgaagatgg tattaaaaga atccaaagatg attgtcccaa agctgggaagg cataaattaca tatttgtcat gattcctact ttatacagta tcatctttgt ggtgggaata ttggaaaca gcttggtggt gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgttttc ttttgaattt agcactggct gacttatgct ttttactgac ttgcccata tgggctgtt acacagctat ggaataccgc tggccctttg gcaattacct atgtaagatt gcttcagcca cgcgcagttt caacctgtac gttagtgtgt ttctactcac gtgtctcagc attgatcgat acctggctat tgttcaccca atgaagtccc gccttcgacg caaatgctt gtacccaaag tcaactgcac catcattgg ctgctggcag gcttggccag ttggccagct ataactcact gaaatgtatt ttccattgag aacaccaata ttacagtttg tgctttccat tatgagtccc aaatttcaac ccttccgata </p> | Homo sapiens |

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|-----|------|--------------------------------------|-------------|--|-----------------|
| 328 | 4944 | Angiotensin II Type 1 Receptor | NP_000676.1 | <p> gggctgggccc tgacccaaaaa tatactggggt ttccctgtttc cttttctgat cattctttaca agttatactc ttatttgtaa ggcctctaaag aaggcttatg aaattcagaa gaacaaacca agaaatgatg atatttttaa gataattatg gcaattgtgc tttttctttt cttttccctgg attccccacc aaattattcac tttttcggat aactaggtac cacttggtat agcttatatt tgtagaattg cagatattgt ggacacggcc atgcctatca ccaattgtat agcttatatt aacaattgcc tgaatcctct tttttatggc ttctcgggga aaaaatttaa agatatattt ctccagcttc taaaatatat tcccccaaaa gccaaatccc actcaaacct tcaacaaaa atgagcacgc ttctctaccg cccctcagat aatgtaagct catccacca gaagcctgca ccatgttttg aggttgatg acatgttcga aacctgtcca taaagtaatt ttgtgaaaga aggagcaaga gaacattcct ctgcagcact tcactacca atgagcatta gctacttttc agaaattgaag gagaaaatgc attatgtgga ctgaaccgac ttctctaaag ctctgaacaa aagcttttct ttccctttgc aacaagacaa agcaagccca cattttgcat tagacagatg acggctgctc gaagaacaat gtcagaact cgaatgaatgt gttgatttga gaaattttac tgacagaaat gcaatctccc tagcctgctt ttgtcctgtt attttttatt tccacataaa ggattttaga atataattaaa tcgttagagg agcaacagga gatgagagtt ccagattgtt ctgtccagtt tccaaagggc agtaaatgtt tcgtgccggt ttccagctat tagcaactgt gctacacttg cactgggtac tgcaactttt gtcacaagat agtctaagca gtagtcgtca agttgcagat ctttttgtga aattcaacct gtgcttata ggtttacact gccaaaaaca tgcccgttaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagttaaac tacttgtaaa ggtgtgcac tgggtccaaag tagtagtgct cctcagtagt attagtttga tttaatatct gagaaagtga tatagtttgt ggtaaaaaa gttatatatca taaagtatgc cttccctgtt aaaaaagta tatattctac acatatatat atatgtatat ctatatctct aaactgctgt taattgatta aaatctggca aagttatat tacttlaaaa taaaaataatt ttattgc </p> | Homo sapiens |
| 329 | 4946 | Angiotensin II Type 2 Receptor | NM_000686 | <p> acgtccacgc gtctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A ttgaaaggagt gtgttaggc actaagcaag ctgatttatg ataactgctt taaacttcaa caaccaaaag cataagaact aggagctgct gacatttcaa tatgaagggc aactccacc ttgccactac tagcaaaaaa attaccagcg gcttcactt cgggcttggt aacatctctg gcaacaaatga gtctacattg aactgttcac tggattttct ggtcaaatatt gtcgtgggta ttcctattct ttactacatt atatttgtaa aggtttctag catatacatc ttcaacctcg cactgttttg ttgtcaaaaag ggtcctaaaa aggtttctag ggtcaaatatt gtcgtgggta ctgtggctga ttactcctt ttggtactc ttccctctat ggcaacctat tattcttata gatatgactg gctcttttga cctgtgatgt gaaaagtgtt tgggtctttt cttaccctga acatgtttgc aagcattttt ttatcacctt gcatgaggtg tgataggtac caatctgtca tctaccctt tctgtctcaa agaagaatc cctggcaagc atcttatata gtcccccttg </p> | Homo sapiens |

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|-----|------|--------------------------------------|-------------|---|-----------------|
| 330 | 4946 | Angiotensin II Type 2 Receptor | NP_000677.1 | <p> tttggtgtat ggctgttttg tctcattgc caacatttta ttttcagag gtcagaacca ttgaatactt agagtgaaat gcttgcatat tggttttccc acctgagaaa tatgcccatt ggtcagctgg gattgcttta atgaaaaata tcttggtttt tattatccct ttaatatca tagcaacatg ctatttttggg attagaaaac acttactgaa gacgaatagc tatgggaaga acaggataac ccgtgaccaa gtcctgaaga tggcagctgc tgttgttctg gccttcata tttggtgcct tcccttccat gttctgacct tccctgagtc tctggcctgg atgggtgtca ttaatagctg cgaagtata gcatcattg acctggacct tcccttgcc atcctctggg gattcaccaa cagctgctt aatcgtttc tgtattgttt tgttgaaaac cgtttccaac agaagctccg cagtgtgttt aggtttccaa ttacttggt ccaagggaag agagagagta tgtcttgccg gaaaagcagt tctcttagag aaatggagac ctttgttct taaacggaga gcaaaatgca tgtaatacag atggctactt gctttgagc tcaccagaat tatttttaag tggttttaat aaataataa aatttccct aatctttct gaacttctg aaaccaaag taactatgt tatcgtccag tgactttcag gaatgcccc tgttttctga tatgtttgta caagatttca ttggtgagac atatttaca ctagaagta actggtgata tatctcaaat tgtaattaat aatagattgt gaataatgat ttgggagtc agatttctct ttgaacatg cttgtgttc ttagtgggt tttatatcca tttttatcag gatttctct tgaaccagaa ccagctttc aactcattgc atctttaca agaaaacatt gtaagagaga tgagcacttc taagttgagt atattataat agattagtag tggattatc aggttttag catatgcttc tttaaaaacg ctataaatta tattcctctt gcatttcat tgagtggag tttatagta atctataact acatattgaa tagggctagg aatatagatt aaatcatact cctatgcttt agcttatatt tacagttata gaaagcaaga tgtactttaa caataaattg caatctataa tatttgtgtg ttcactaac tctgaataag cactttttaa aaaactttct actcatttta atgattgttt aaaggttctt attttctctg atactttttt gaaatcagta aacactgtgt attgtgttaa aatgtaaagg tcacttttca catccttgac tttttagatg tgcgtcttg atatatagga catgtattg attttatta ttaatgcttt ggttctgggt tgtttcctaa aatatctggg tggcttaaaa aaaactcttt aacttgtaat aaacctttaa ctggcatagg aaatggtatc cagaatggaa ttttgctaca tggggtctg gtgggggcaa agagaccag tcaattacat gtttggtacc aagaaaaggaa cctgtcaggg cagtacaaat tgaattgaa aatatatac gttggggtag tttacccta tatctataaa cactgtttgt tccagaatct gtatgattct atggagctat tttaaaccaa ttgcaggtct aga MKGNSTLATT SKNITSLHF GLVNIISGNE STLNCQKPS DKHLDAIPIL YYIIFVIGFL P VNIVVTLC CQKPKRVSS IYIFNLAVD LLLLATLPLW ATYYSRYDW LFGPVMCKVF GSFLTLNMEA SIFFITCMV DRYQSVIYPF LSQRNPWQA SYIVPLVWCM ACLSSLPTFY FRDVRTIEYL GNACIMAF PEKQAQWSAG IALMKNILGF IIPLIFIATC YFGIRKHLK TNSYGNRIT RDQVLKMAA VLAFIIWCL PFHVLTLFLA LAWMGVINSC EVIAVIDLAL PFAILLGFTN SCVNPFLYCF VGNRFQQLR SVFRVPIITWL QGKRESMSCR KSSSLREMET FVS </p> | Homo sapiens |
| 331 | 5072 | Pyrimidinerg ic Receptor P2Y4 | NM_002565 | <p> atggccagta cagagtcctc cctgttgaga tccctaggcc tcagcccagg tccctggcagc A agtgaggtag agctggactg ttggtttgat gaggatttca agttcatcct gctgcctgtg agctatgcag ttgtctttgt gctgggcttg ggccttaacg ccccaacct atggtctctc atcttccgc tccgacctg ggatgcaacg gccacctaca tgttccacct ggcattgtca </p> | Homo sapiens |

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|-----|------|-------------------------------------|-------------|---|-----------------|
| 332 | 5072 | Pyrimidinerg ic Receptor P2Y4 | NP_002556.1 | MASTESSLR SLGLSPGGS SEVELDCWFD EDFKILLPV SYAVVFLVL GLNAPTLWLF P IFRLRPWDAT ATYMFHLALS DTLYVLSLPT LIYYAAHNNH WFFGTEICKF VRELFYWNLY CSVLFLTCIS VHYRLGICHP LRALRWGRPR LAGLLCLAVW LVVAGCLVPN LFFVTTSNKG TTVLCHDTR PEEFDHYVHF SSVMGLLFG VPCIVTLVY GLMARRLYQP LPGAQSSSR LRLRTIAVW LTVFAVCFVP FHITRTIYLL ARLEADCRV LNIVNVYKV TRPLASANSC LDPVLYLLTG DKYRRQLRQL CGGKPKPRT AASSLALVSL PEDSSCRWAA TPQDSSCSTP RADRL | Homo sapiens |
| 333 | 5117 | Vasopressin V1A Receptor | NM_000706 | taattgcttg aaggattttt tccagacagg tggctggaa acctttacc tattacctc A catccctgaa ccatttcaat cttctgcctc ctggatatct tggagaaaaa gaaccaaac aacacagctt tcagttttta gacatttcc ccatacaga acattgtctt acttgatctt ccgatgacc tcaacaacag gaaaggcagg tcttttcat tccattata agacgcacag accagattt atctagccac aggaagcagg actccagatt tcaagtcacg catctcaacg tgacaaactt ggtaactctg catgaacgga ctggatagta aagtggaaatt attactgaga actgcaatga ataaaactt ttgcattttt tgctactgtt tcacagaggg tgatatattt ctgaggcaat taaattata ccaaggccac aatactgaaa cgttctgacc acaaaagtca tgctcctgca tctacacagc agataactgc agaaacggct tcttttctt cttgtaaaa tgctgaaaa cagctccccc ttgctgtccg tcgaggcata tcttcaccaa cgttaaaaa gagctgaggg agatgcatt ttgctctccc tcccgcctg cagaggggct ccagctgttc agagtaacgg attactaggt aggtgggtgt ttccctctct tcccaggcc tcttctctt cttgagatt gctctttct tactcttag cacaggagcc gggcggtgtt tctgtccctt gccctggaca gactgcctg gatggcctg tccggcagg tgctcttgt ccacccaaa agatgtcccc acgactcagt agtaaccaga cgggtccccc ggaccactgc ggcacaaatt ccgcatccc cgtgtggga atcaggcttt tcccagaa aacccagg atctagagaa aactcttaa gtcctagtc tccatagaga aaaccagg aactcccc caaacccgc tgtgaataca ggcacagcag ccaactgggc ctgaaagtga tgagtgcgtt cttcccgctg caacacatagg gtaataaata gcatgcatca aagcgttac taggaagaga tagctcttta | Homo sapiens |

agtcacgagg ggggagaaat gtttgcccg gaaaaatttg cctggggaat aaaatttgc
agactgctgc acgggtgagc tcggtgagaa ggaagaaacc cggactggag gagtgaggt
cgagagccag gttcagtgcc aggagctaga tgcgtgagc ccggtgctg gactggaggt
ttccaggtac cgcgcttagc gtgctgttg aagtcaaatg catggttaag gaggtagcg
aggaaggcta gtgagggaag cttgtgaaa cggctacgag ccagaaaaag gcatgactcg
tcagtgtcc aagtttttg aaggaaaaag cgggaaaagc ccacgatcc acctactgtg
aggaggaatc tgcgagtctc ccagctccac cccctccaca gtgatgcaga ggacaaacac
cgacgtagg agaggaaaaa ataaaactcc agggagcggg gagtaggcaa ccagcagttct
tccggcaata gggcgggagg gagcgtcc caagaaaca agcaccccat aaatacttga
gttgggaacc cagtcttcc ggaagctcgg agctcacctt cccgacctcg ccgaagtga
aaaaaggcag agcaggaga ggggccagct caccctgtg agagtgtc agtgggcagg
cgggacgtg ctccgggaga cggccactgg agggatgca gagcccgca agctgcgagc
gcgcaaaaga cctgcgtt cggacgagga gcccaagtc tccgagacgg ggaggagcg
cgccgcgagg gctggagctc cgaagaggc cgagtaggag ctgcatggac agcatgcgtc
ttccgcgagg tcccagcgg gggccctcgg gcaactccag cccatggtg cctctggcca
cggcgctgg caacacaagc cgggagcgg aagccctcg ggagggcaac ggccaccca
gggacgtgcg caacgaggag ctggccaaac tggagatcgc cgtgctggcg gtgactttcg
cgggtggcgt gctgggcaac agcagctac tgtgtgtct gcaccggag ccgcgcaaga
cgtcccgcat gcactcttc atccgacac tcagcctggc cgacctggc gtggcattct
tccaggtgct gccgcaaatg tctgggaca tcactaccg ctcccgggc cccgactggc
tgtccgctg ggtgaagcac ctgcaggtg tggccatgt tgcgtcgcc tacatgctgg
tagtcatgac agccgacgc tacatcgcg tgcacacc cctcaagact ctgcaacagc
ccgcgcgcg ctccgcctc atgatcgcg ccgcctgggt gctgagcttc gtgctgagca
cgccgcagta ctctgtctc tccatgatcg aggtgaacaa tgtcaccaag gcccgcgact
gtggggccac ctccatccag cctgggggtt ctggtgccta cgtgacctgg atgacggcg
gcatctttgt ggcgccgtg gtcatcttgg gtactctga cggcttcac tgtacaaca
tctggtgcaa cgtccgcggg aagacggcgt cgcgccagag caagggtgca gagcaagcgg
gtgtggcctt ccaaaagggt ttctgctcg caccctgtg cagcagcgtg aagtcattt
ccggggccaa gatccgcag gtgaagatga cttttgtgat cgtgacggct tacatcgtct
gctgggcgcg ttcttctac atccagatgt ggtctgtctg ggatcccatg tccgtctgga
ccgaatcga aaacctacc atcaccatca ctgcattact gggttccttg aatagctgct
gtaatccctg gatatacatg ttttttagtg gccatctcct tcaagactgt gttcaaaagt
tcccatgctg ccaaaacatg aaggaaaaat tcaacaaaga agatactgac agtatgagca
gaagacagac tttttattct aacaatcgaa gcccaacaaa cagtacgggt atgtggaaag
actgcctaa atcttccaag tccatcaaat tcatctctta ttcaacttga gccttgcat
catgcaactt gattcttctg attgactttt tggctcatta gctgaattga gctagaaatc
acaagaacaa atacacttta ttaataaac cataaatcaa ttcatgtgt atgagactgt
gtttctagt gcattttcat ttgtctacca aaaactagac attattttgt atggaatatt
aatggaaaca tgtgtacta aaatatgcag gtctgattcc cagaaataca acagaagtta
tatttttaa ggaataatca taaccacct agctttatat tttgtgttta gttctttta
tttctattc taacataagt aagacttgat tggtttaaaa gtcacataaa atgcggcact

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|-----|------|-----------------------------|-------------|--|-----------------|
| 334 | 5117 | Vasopressin V1A Receptor | NP_000697.1 | MRLSAGPDAG PSNGSSPPWP LATGAGNTSR EAEALGEGNG PPRDVRNEEL AKLEIAVLAV P TFAVAVLGNS SVLLALHRTF RKTSRMHLFI RHLSLADLAV AFFQVLPQMC WDIYRFRGP DWLCRVVKHL QVFGMEFASAY MLVVMADRY IAVCHPLKTL QQPARRSRIM IAAAWVLSFV LSTPQYFVFS MIEVNVVTKA RDCWATFIQF WGSRAVVTWM TGGIFVAPVV ILGTCYGFIC YNIWCNVRGK TASROSKGAE QAGVAFQKGF LLAPCVSSVK SISRAKIRTV KMTFVIVTAY IVCWAPFFII QMWSVWDPM S VWTSENPFI TITALLGSLN SCNPWIYMF FSGHLLQDCV QSFPCQNMK EKFNKEDTDS MSRRQTFYSN NRSPTNSTGM WKDSPKSSKS IKFIPVST | Homo sapiens |
| 335 | 5118 | Vasopressin V1B Receptor | NM_000707 | ctccagcgc tgctcaccag gcagagcgag cgggcttggc tggggcttcc tgccctgagc A gcgacacgga ctgctccgga cgcgcctcc aagcaggtcg aagggtctcc gctcttggt tccagaaaaa ttggagaaa gagaatttga ggcggatttg aggggtgtag cccctcccca gccttcttcc tctccagaa gccctactct gcacagcgtc cccattctt cccgtctcga ttcccatct ctctgacccc tcttctccc tctctggtt cgatcccgat cacatttct cttccgaat ctctcctcc ctctcctct tcatctcaa cgcttctct tctctccac ctccctgcc atttggagc ctctcctct atccatcaa cctctccact tggatccaca cctcccttc atcttccct actccattt cctccatcaa cctctccact tggatccaca cctcccttc atcttccct ccagcaaac ctgtctcatg gccacaacac cctgtgtggc ctgtgtggga tggcaacccc accctcggg gcacctctc tgccccaat gccacaacac cctgtgtggc tgggtgtggc gccggatgag gactggcca aggtggagat cggagtcctg gccactgtcc ctgggcccga agcgtctccg catgcacctg tctgtgtgc tgctgtgac cctggggccag ctggggccga tgggtgtggc tcttccaggt gctgccacag ctgtgtggg acttagccct gacagacctg gcggtgggc tcttccaggt tctgtgcat ggcgtcaa gactgtgag acatcaccta cgccttccag ggcgccgacc tctgtgcat tgtgtggcat gacgtggac cgtacctgg tgctcagcat gtttgcctcc acctacatgc tgtgtggcat gacgtggac gactacctg ctgtctgtca cccctgcgc agcctccagc agccaggcca gctccctca agtcttcat tttccctgc ctgctccctg gctgtgtggc gccatcttca gctccctca gctccctca agtcttcat tttccctgc ggagggtgat ccagggtcca ggggtgtggc agctgtggc agactctggc tcccttggg ggccacggc ctacctcacc tggaccacc tgggtatctt cgttctgccc gtgacctgc tcaaggcctg ctacagcctc atctgccatg agactgttaa aaacctaaaa gtcaagacac agccctggcg ggtgggagga gggggctgga ggacttggga caggccctca ccttccact tagctgccac cactcggggg ctgccatctc ggggtcagcag catcaaac atctcaggg ccaagatccg aacagtgaag atgacctttg tcatctgtct ggcctacatc gcttgtggg ctcccttctt cagtgtccag atgtgttccg tgtgggacaa gaatgccct gatgaagatt | Homo sapiens |

Homo
sapiens

336 5118 Vasopressin NP_000698.1 MDSGPIWDAN PTPRGILSAP NATTPWLGRLD LAVALFQVLP QLLWDITYRF EELAKVEIGV LATVIVLATG GNLAVALLTG P
V1B Receptor
QLGKRKSRMH LFVLHLALTD DRYLAVCHPL RSLQPPQGST YLLIAAPWLL AAFSLPQVF IFSLREVIQG
STYMLLAMTL GFWGPRAYL TWTTIAIFVL PVMTLTACYS LICHEICKNL KVKTQAWRVG
SGVLDCWADF GFWGPRAYL GLPSRVSSIN TISRAKIRTV KMTFVIVLAY IACWAPFFSV
GGGWRTWDRP SPSTLAATIR PDEDSTNVAF TISMLLGNLN SCCNPWYMG FNSHLLPRPL RHLACCGGPQ
QMWSVWDKNA PDEDSTNVAF TRSSCPATLS LSLSLTSLSGR PRPEESPRDL ELADGEGTAE
PMRRRLSDG SLSSRHITLL
TIIF

Homo
sapiens

337 5119 Vasopressin NM_000054
V2 Receptor
agaagatcct gggttctgtg catccgtctg tctgaccatc cctctcaatc ttccctgccc A
aggactggcc atactgccac cgcacacgtg cacacacgc aacaggcatc tgccatgctg
gcattcttat aagggtctca gtccagagac cctgggacct tgaacttgct cctcaggcag
aggctgagtc cgcacatcac ctccaggccc tcagaaacac ttgcccagcc ccaccatgct
catggcgtec accacttccg ctgtgcctgg gcatccctct ctgcccagcc tgcccagcaa
cagcagccag gagaggccac tggacacccg ggaccgcgtg ctgacccggg cggagctggc
gtgctctcc atagtctttg tggctgtggc cctgagcaat ggctgtgtgc tggcgccct
agctcggcgg gcccggcggg gccactggg acccatacac gtcttcattg gccacttgtg
cctggccgac ctggccgtgg ctctgttcca agtctgccc cagctggcct ggaaggccac
cgaccgctc cgtgggcccag atgcccctgtg tgggcccgtg aagtatctgc agatgggtggg
catgtatgcc tctcctaca tgatcctggc catgacgtg gaccgccacc gtgccatctg
ccgtcccatg ctggcgtaac gccatggaaag tggggctcac tggaaaccgc cgggtgctagt
ggcttgggcc ttctcgctcc ttctagcct gcccagctc ttcatcttcg cccagcgcaa
cgtggaaagt ggcagcgggg tcaactgactg ctggcgccgc ttgcccggag cctggggccg
tcgcacctat gtcacctgga ttgcccctgat ggtgttcgtg gcacctaccc tgggtatcgc
cgcctgccag gtgctcatct tccgggagat tcatgccagt ctggtgccag ggccatcaga
gaggcctggg gggcgccgca ggggacgcgg gacaggcagc cccgggtgag gaggccacgt
gtcagacagt gtggccaaga ctgtgaggat gacgctagt attgtggtcg tctatgtgct
gtgctgggca ccttcttcc tgggtcagct gtggcgccgg tgggacccgg aggcacctct

| Accession | Gene | NP_000045.1 | Vasopressin V2 Receptor | 5119 | 5133 | 5139 | Species |
|-----------|--------|-------------|-------------------------|-------------|-------------|-------------|--------------|
| U01299 | AVPR1A | MLMASTTSAAV | PGHPSLPSP | SNSSQERPLD | TRDPLLRAAE | LALLSIVEFA | VALNSGLVLA P |
| U01299 | AVPR1A | ALARRGRRGH | WAPIHVFIGH | LCLADLAVAL | FQVLPQLAWK | ATDRFRGPDA | LCRAVKYLQM |
| U01299 | AVPR1A | VGMYASSYMI | LAMTILDRHRA | ICRPMLAYRH | GSQAHWNRPV | LVAWAFSLLL | SLPQLFIFAQ |
| U01299 | AVPR1A | RNVEGGSGVT | DCWACFAEPW | GRRTYVTWIA | LMNFVAPTLG | IAACQVLIFR | EIHASLVPGP |
| U01299 | AVPR1A | SERPGRRRG | RRTGSPGEGA | HVSAAVAKTV | RMTLVIVVVY | VLCWAPFFLV | QLWAAWDPEA |
| U01299 | AVPR1A | PLEGAPFVLL | MLLASLNSCT | NPWIYASFSS | SVSSELRSLL | CCARGRTPPS | LGPQDESCIT |
| U01299 | AVPR1A | ASSSLAKDTS | S | | | | |
| U01299 | AVPR1A | gaataagcct | tcgataatta | tgaagggtgt | ttcgggtatct | tcctcccaa | atgctaagaa A |
| U01299 | AVPR1A | ataatttagg | caacagttca | gactctaaa | atgaagatgg | ctcgggtctt | tcacagactg |
| U01299 | AVPR1A | aacacaatat | tgttgcaact | tacttgatta | tggcaggtat | gataagttat | atcagcaaca |
| U01299 | AVPR1A | taatagtctt | gggcactctc | attaagtaca | aggaacttcg | gacaccaca | aatgcaatta |
| U01299 | AVPR1A | ttattaacct | ggctgttact | gatatagggg | tcagtagcat | tggctatccc | atgtctgctg |
| U01299 | AVPR1A | cctcagatct | gtatgggaagt | tggaaatttg | gatacgcagg | ctgtcaggtt | tatgtctggat |
| U01299 | AVPR1A | tgaatatatt | ttttggaatg | gcaagcattg | gattactcac | ggtcgtggct | gtggaccgat |
| U01299 | AVPR1A | acctgaccat | ctgccttcct | gacgtagggg | gaagaatgac | caccaacact | tacatcggct |
| U01299 | AVPR1A | tgattctggg | agcctggatc | aatggcctgt | tttgggcttt | gatgcctatc | atagggtggg |
| U01299 | AVPR1A | ctagtctatgc | cccagatcct | actggtgcta | cgtgtaccat | aaactggagg | aaaaatgata |
| U01299 | AVPR1A | gatcttttgt | gtcttacacc | atgacagtta | ttgcgataaa | ttttattgtg | cccttgacag |
| U01299 | AVPR1A | tgatgtttta | ctgctattac | catgtcacgc | tatccattaa | acatcacact | accagtgact |
| U01299 | AVPR1A | gcactgagtc | cctcaacaga | gactgggtcag | atcacagata | tgtacaaaag | atgtctgtga |
| U01299 | AVPR1A | tcattgatctg | catgttttctg | gtggcatggg | ccocttattc | catcgtgtgc | ttatgggctt |
| U01299 | AVPR1A | cttttggtga | cccaagaag | attcctcccc | ccatggccat | catagctcca | ctgtttgcaa |
| U01299 | AVPR1A | aatctctctac | attctataac | ccctgcattt | atgtggttgc | taataaaaag | tttcgggaggg |
| U01299 | AVPR1A | caatgcttgc | catgttcaaa | tgtcagactc | accaaaacat | gcctgtgaca | agtattttac |
| U01299 | AVPR1A | ccatgggatgt | atctcaaaa | ccattggcctt | ctggaagaat | ctgaaaataag | agaaaaggac |
| U01299 | AVPR1A | acgctatcaa | aacacttttag | ttttttgaca | atgcttttct | tttaaatatg | agcccattta |
| U01299 | AVPR1A | gatcaagtgc | agacatggat | catgtctcta | tgagatgtga | agctcctcaa | gcacagctcg |
| U01299 | AVPR1A | tgtctccggt | tgtgcactct | ggctgctgta | gtgatgtctt | ctctgtgtcc | tgatataatc |
| U01299 | AVPR1A | acttatgtct | catctccttt | gatgaattag | gcatacaggg | ttaagggtccc | ctttctttct |

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|-----|------|---|-------------|--|--------------|
| 340 | 5133 | Peropsin | NP_006574.1 | ccctattatg gcatgcatta cactgtactg atgaccttta acttgccctg ctc | Homo sapiens |
| 341 | 5519 | Brain-Specific Angiogenesis Inhibitor 1 | NM_001702 | <p> ggactttaga agcgttgct gccctctctg tcacctgaag cggggccctc tccatccca A cccttgcccc gctccctgc ccccaacggg ccgcccctgc ccgcgcgcg accctggcat gtcaagacct ggtccgcgcc tgcctgcccc gcccgcgaa ccccgggcg cccgcgagct aggatgagg gccagcgcc cgcgccggc cccgtctgga tccctgccc gctgctactg ctgtgtctgc tgtgaggag ccgcgcgcg ggcgcgcgc gagcagcgc ggggcccggg cccgagccgt gcgccacgt ggtgcaggga aagttctctg gctacttctc cgcggccgccc gtgttccccg ccaacgcctc gcctgtctcc tggacgctac gcaacccgga cccgcggcgc tacactctc acatgaagg ggcacaagg cccgtgccc gcagcggccc cggccgctg cgcacctacc agttcgact cttctctgag tccacggca cctacctggg cgtggagagc ttcgacgagg tctgcggct ctgcgacccc tccgcacccc tggccttctc gcaggccagc aagcagtcc tgcagatgc gcgccagcag cgcgccccag acgacggct ccggccccgg gccggggcgc cggggccccc cgcgacttc tccgtggagt acctgttgt ggggaacgc aaccacagc gtgcgcctg ccagatgctg tgcgcgtgc tggacgcgtg tctggccgt agtcgcagct cgcacccctg cgggatactg cagacccct cgcctgccc gggcgccgag gcggggcgc ctgcgcggg acccctggc ccccgccgg atgtctgct gagagatgc gtggtggtg gccctgaaaa ctgcctcacc agcctgacc aggacgggg cgggcacggc gccacaggc gctggaagct gtgtccctg tggggcgaat gcacgcggga ctgcggggga ggcctccaga cgcggacgc cactgctg cccgcgcgg gcgtggagg cggcggtgc gaggggtgc tggaggagg tgcagatgc aaccgcagg cctgcggccc cgtgggcgc accagctcc gagccagtc cctgcggtc acagatgcc ggcgccgga gtagctggg gacgagctgc agcagtttg gtccacagc tgcggcgagg gctggcagc ccgcacgcgc tgggtccctg gtagcgtgtg ctccagcac tgcagcgag cctgcgga gcagcggctg ttctgcgtg cctcctcta cagcagcag tgcagcgag cctgcgga gcagcggctg tgcaacaact ctgcctgtg cccagtgc atgtcctgg atgagtgtc gccctggagc ctctgtcca gcacctgtg ccgtggctt cgggatacga cgcgcacct caggcccccc cagtttggg gcaacccctg tggggccct gagaagcaaa ccaagttctg caacattgcc ctgtgccctg gccggcagt gtagtgaac tggaaatgag ggtcagctg gagcgctgc tccgccagct gctccacgg ccgacagcag cgcacgcgt aatgcaacgg gccttctac gggggtgcg agtgccagg ccaactgggt gagacccag actgttctc gcagcagtc ccagtggat gcaagtggca ggcctgggc tcatgggga gttgcagct cactgtggg gctggcagc agcacggga gcgtgtctg tctgggccc tcttcgggg agcagcctgc cagggcccc aggatgagta ccggcagtc ggcacccagc ggtgtccga gccccatgag atctgtgat aggaacaact tgggtgtgtg atctggaag agacccagc gggagaggtg </p> | Homo sapiens |

gctgctgtcc ggtgtccccc caacgccaca ggactaatcc tgcgacgggtg tgaagctggac
gaggaaggca tcgcctactg ggagccccc accataatcc gctgtgttc catgactac
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gagggaggga agctgaagct ggccatgac aaggggcgc ccaccaatt caacagctg
ccggccaaag tgtccaagct gcacctgcac ggctcacc cgtatcccg cgggccccg
ccgacttcc caaccactc actgacctc aagagggaca aggcgccc aa gtctcctc
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gctctggaca cagctacgt gatcctgccc acggccacg ccacgtgc gcccagccc
aaggaggagc caagtacag catccacatt gaccagatgc cgcagaccc cctcatccc
ctcagcacgg ccccaggc cagcctccc gcccagac cgcctccg ccagcccc
agcggcgggc ccccaggc acccctgac cagccccc cgcctccg ccacccca

| 342 | 5519 | Brain-Specific Angiogenesis Inhibitor 1 | NP_001693.1 | MRGQAAAPGP VWILAPLLLL FPANASRCSW TLRNPDPTRY DEVLRLCDPS ARLAFLQASK PSRAACQMLC RWLDAFLAGS AGPENCLTS LTQDRGGHGA GVLEEGROCN REACGPAGRT SPWSVCSSTC GEGWQTRTRF CSSTCGRGR DRTRTCRPPQ ASCSQGRQOR TRECNGPSYG GSQRRERVS GPFEGGAACQ AVRCPRNATG LILRRCELDE GVSEVIQTLV EISQDGTSYS AEENRDKWEE AQLAGPNAKE ATDISFPMKG WRATGDWAKV LQRNTTVLNS KVISVTVKPP LGPWSWRGCR TVPLDALRTR TLIMLVIIYV SWRYIRSER FFLSSEFCWL TEAWQSYMAV NYCWLSEGG LLYAFVGPAA VVLPLLLALTW MSALVAVTDR DRQEEGNQDS GGSFQNGHAQ EEKLKLAAHAK GPPTNENSLP | NP_001693.1 MRGQAAAPGP VWILAPLLLL FPANASRCSW TLRNPDPTRY DEVLRLCDPS ARLAFLQASK PSRAACQMLC RWLDAFLAGS AGPENCLTS LTQDRGGHGA GVLEEGROCN REACGPAGRT SPWSVCSSTC GEGWQTRTRF CSSTCGRGR DRTRTCRPPQ ASCSQGRQOR TRECNGPSYG GSQRRERVS GPFEGGAACQ AVRCPRNATG LILRRCELDE GVSEVIQTLV EISQDGTSYS AEENRDKWEE AQLAGPNAKE ATDISFPMKG WRATGDWAKV LQRNTTVLNS KVISVTVKPP LGPWSWRGCR TVPLDALRTR TLIMLVIIYV SWRYIRSER FFLSSEFCWL TEAWQSYMAV NYCWLSEGG LLYAFVGPAA VVLPLLLALTW MSALVAVTDR DRQEEGNQDS GGSFQNGHAQ EEKLKLAAHAK GPPTNENSLP | agagaccccg agagaccccg gggatcccg ggagaccccg gagaaatgcg ccacctgtgc ctggacttbg agaagatcat aacgggaagc tgcagacgcg ccggaaaaagc agcagacgac acgcccacgt gggtgaagaa agcgtggagt gggagaggtc ctccagaccg aggtctgagc gctgctccgc ccgctcctgc cccgcaccc ggctcaggg accagagcca gatcagagac gaagtgctct cagactccgc ctgtggaccg tggacagggc ctgcggagga gctgcctgct ccctcgggaa gcagccagct gtggagggca cagccctcgc gaagaagcag gggggaatct aaaaacccaaa aaaa | gccccacccg ccaatctgg ggaccatccg ggaccagca tgtgagctcc ctggagcggc gcacaccccg aagcggcacc agcggagaag gacaaagagg caacaagagg ccctgggaga ggagctggag ccgctgagc gggcgcaacg atcccgctgg gggtggcggc cgccacgca cgagacggg cgcagacgag cgctcagag cggcacggc aggagggcg ccggccagcg cctcctcggg ccgagggcca agggagggc cggcggccga agggagggc aggtcccgag tgcccgggc ggcctggcag tggccgggac ggttttttaa tccagggccc taggccccct ccccacatgg ccccgaggg atctttcttc tcctttctt tcttcaata aaaagaatta | agcggcacc cccagcctg cgggggccag caccaagaac ggaagtcgcg gtatgcagaa aagacatgtt ccaggacctg tgctggggcc ggacagcaag gcctccggaa agccccggg cgtgcgcgct ggagcttcgc tgggccaagg catcatcgac ctggggccac gaggagggat ctcgcgggca cggggccagg acaggggccc cagtgtctgg ggcacagggc accagaggcc gggggcagat gggcgagcgg ggtaccgcc tgagctcctg cgttttttaa acacccccat taggccccct ctagacccag caggactgag tccccccag tcttcaata aaaagaatta | Homo sapiens |
|-----|------|---|-------------|---|--|--|---|--|--------------|
|-----|------|---|-------------|---|--|--|---|--|--------------|

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|-----|------|---|-----------|--|
| 343 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | NM_001703 | <p> GDGDIFFKLLD SELSRAQKA LDTSYVILPT ATATLRPKPK EEPKYSIHID QMEQTRLIHL STAPEASLPA RSPPSRQPPS GGPPEAPPAQ PPRPPPPPPP PPOPLPPPP NLEPAPPSLG DPGEPAHPG PSTGPSTKNE NVATLSVSSL ERRKSYAEL DFEKIMHTRK RHQDMFQDLN RKLOHAAEKD KEVLGPDSPK EKOQTPNKRK WESLRKAHGT PTWVKKELEP LQPSPLELRS VEWERSGATI PLVGQDIIDL QTEV gccgcgcggg agagcgggag cctcgccct cgcgcgggt gcagctacct accctgcgc A cgccaggtc cccgacttag ggatggcaaa ctggccccc gtggccgcc cgccagcgc sapiens cgccccccg tctgtgtgt gacggcgccc agaaatcca cagcagtgt acatgtgacg tccacactga cagtgcctc ctgtgggcat ggctcaggtt gtgcgcagtt cctggcacac tggctgtaac tccgcctct tctccctc tcagttaagc aagattacgc ggtgacatgc ctacacagctg atcacgacac acggggatgg agagcaagag ttatggagaa tacaggttgg atgggcaagg gacataggat gacccagcc tgtccctct tactgtctgt gattctgtcc ctgcccctgg ccacgcctt cgacccgcc ccagtgctt gctctgccct ggctcgggt gtgtctacg gggccttct gctgcaggac ctcttctta ccatgcctc gggctgtctc tggaccctgg agaaccctga ccccaaccag tactccctc accctgcctt caaccgccag gagcaggtgt gcgcacctt tgcctccgc ctgtgcccc tggaccacta cctggtaaac tttaacctgc tgcggcctag ccccgaggag gcggtggccc aggcggagtc agaggtgggg cgcccaaga agaggaggc agaggcgga gcggggttgg agctgtgcag cggctcaggc cctttacct tctgcactt cgacaagaac ttggtgcagc tgtgcctgc ggctgagccc tccgagggcc cgcgcctgt ggcgcctgt gcctagctt cccctgtgt gcaggtcttg ctcatcaaca acaacaactc tagccaattc accctgtgtg tgctctgcc ctggagttag gagtgtggcc gcgctgcgg cgaggcctgc ggcttctgc agccaggtc cagctgccct ggagaggcgg gggcgcgtc caccaccac acatctccag gccctcctgc tgccacacc ctgtccaatg cctgtgtgc cggggggccc gccccacctg ctgaggccga ttgtcactc gggagcagca atgatctgt cacaaccgag atgagatatg gtgaggagcc ggaagaggaa ccgaaagtga aaaccagt gcgaggtct gcagatgagc ctgggctata catggcgacg acaggcgacc cggcggtga gtagtggctc cgtggagcg tgtgttccct gacgtgtggg cagggtctgc aggtgcggac cgcctcctgt gtgtcctcc cctatggac cctgtgcagc gggccctgc ggggagaccag gacctgcaac aattcagcca cctgccagt gcacggcgtg tggaggagt ggggtctctg gacctgtgc tccgcagct gcggcgggg gtcccgagc cggatcgga cctgcgtgc ccccgagca ggcggcaagg cctgcgagg tctgagctg cagactaagc tctgactat ggctgcctgc cgggtggaag gccagtgtt agaattgggt cctggggcc catgtccac gtctgtgc aatgggacc aacagcgag ccggaagtgc agcaacctc agtgcccgcc gccacatgc acgggtgcc tcaatgac ccgggagtc tgcctaaag cgtgtgacac aggtggcag aagtggggc catggaatgc gtggagcctg acgcagggt accctgcga gggcacgga gaggacttc gcatgtgcca ggccacggc tgtccagct tccatgatgt gtgcaggat gactagctga agcctttag tgaagaagg gcagctgtc gcgagatcat ctacaacaag tgcctccga atgcctcag gtggaagaag cgcgctgtc tctcagtc ccaaggcgtg gcgtactgg ggctgccag cttgtctgc tgcactctcc atgagtaccg ctacctgtat ctgtcactta gggagcacct ggccaaaggg </p> |
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| 344 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | NP_001694.1 | <p>ccgccgacac ccagcgcccg ccaagtgcgc gagccagggg agcgagcccg gaccatgcct cgcaccgtgc ccgctcttac catgaagatg ggcctccctgg agcgaagaa attacgggtat tcagaccctgg actttgaggt gatgcacacc cggaacacggc attcagaact ctaccacgag ctcaaccaga agttccacac ttccgacccg tacccagacc agtccacggc caagaggggag aagcggtgga gtgtgtcttc ggggtgggag gccgagcgga gcgtgtgcac cgataagccc agccctgggg agcgcccccag cttgtcccaa catcgcgccc atcagagctg gagcaccttc aaatctatga cactgggctc gctgcccccc aagccccag aacggctgac tctgcaccgg gcagcagcct ggagcccccac agaaccaccc gatggtgact tccagacaga ggtgtgagtg ccacgtgga ctgcccactg catataata tatatactc tctattttca cactccactt tggaactacc cagagccag cgccctctcc cctctccga ggcctgggca gggagcgccc gtggactcag ccaggtggg ggagccggac atggtctggc ctgggggtccc agggcccttc ctgtttctc agagccccc cagccactgg aaccctatc tcagccacg ctgtccgctc ctgtcccggg ctggggaggg gggaggggaa cttgttggg aataaacttc actctgtg DPTKYSLYR VILSLRLATA FDPAPSACSA LASGVLYGAF SLQDLFPTIA SGCSWTLENP P AEAAAGLELC SGSGPFTFLH FDKNFVQLCL SAEPSEAPRL LAPAALAFRF VEVLLINNN SSQFTCGVLC RWSEECGRRA GRACGFAQPG CSCPGACAG STTTTSPGPP AAHTLSNALV PGGPAPPAA DLHSGSSNDL FTTEMRGEE PEEEPKVTQ WPRSADEPGL YMAQTGDPAA EWSFWSVCS LTCGQGLQVR TRSCVSPYG TLCSGLPRET RPCNNSATCP VHGWEWGS WSLCSRSCGR GSRSRMRTCV PPQHGGKACE GPELOTKLCS MAACPVEGQW LEWGPWGPCS TSCANGTOQR SRKCSVAGPA WATCTGALTD TRECSNLECP ATDSKWGPWN AWSLCSKTC TGWQRRFRMC QATGTQGYPC EGTGEVVKPC SEKRCSAFHE MCRDEYVMLM TWKKAAGEI IYNKCPPNAS GSASRRCLLS AQGVAYWGLP SFARCSISHEY RYLYLSLREH LAKQORMLAG EGMSQVVRSL QELLARTTY SGDLFVSVDI LRNVDTFKR ATYVPSADDV QREFQVVSFM VDAENKEKWD DAQVSPGSV HLLRVVEFI HLVGDAKAF QSSLIVTDNL VISIQREPVS AVSSDITFEM RRRGMKDWV RHSEDRLELP KEVLSLSPG KPATSGAAGS PGRGRGPTV PPGPGHSHQR LLPADPDRESS YFVIGAVLYR TLGLILPPPR PPLAVTSRVM TTVTRPPTQP PAEPLITVEL SYIINGTTDP HCASWDYSRA DASSGWDTE NCOTLETQAA HTRCQCOHLS TEAVLAQPEK DLTLELAGSP SVPLVIGCAV SCMALTLIA IYAAFWRFIK SERSIILLNF CLSILASNIL ILVGQSRVLS KGVCTMTAAF LHFFFLSSFC WVLTEAWQSY LAVIGRMRTR LVRKRFLCLG WGLPALVAV SVGFTRTKGY GTSSYCWLSL EGGLEYAFVG PAAVIVLVNM LIGIIVFNKL MARDGISDKS KKQAGSERC FWASLLPCS. ACQAVSPLL SSASARNAMA SLWSSCVVLP LLALTWMSAV LAMTDRSVL FOALFAVENS AQGFVITAVH CFLRREVQDV VKCOMQVCRA DESEDSPDSC KNGQLQILSD FEKQVDIACQ TVLFKEVNTC NPSTITGTLS RLSLDEDEEP KSCLVGPEGS LSFSLPGNI LVPMAASPGI GEPPPPQEAN PYVMCGEGGL RQLDLTWLRP TEPGSEGDYD VLPRTTSLQ PGGGGGGGED APRARPEGTP RRAAKTVVHT EGYPSFLSVD HSGLGLGPAY GSLQNPYGMT FQPPPPPSA RQVPEPERS RTMPRTVPGS TMKMGSLERK KLRYSDLDFE VMHTRKRHSE LYHELNQKFH TFDYRSQST AKREKRSVS SGGAAERSVC TDKPSPGERP SLQHRHRHQS WSTFKSMTLG SLPPKPRERL TLHRAAAWEP TEPPDGDFTQ EV</p> | Homo sapiens |
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345

5521

NM_001704

Brain-
Specific
Angiogenesis
Inhibitor 3Homo
sapiens

ggataacaac ttacagaggg caaatgacat aggatgaagg ctgttgctaa cctgctgatt A
tatatatatt ccacctatct cctgggttatg ttgggattta atgctgcccc agacttctgg
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aagcaacgat tcatgttga accgttctat atggttttagt ttcaaaaaa cttcaccatg

346 5521 Brain-Specific Angiogenesis Inhibitor 3 NP_001695.1 Homo sapiens

aagcacaaatg tataatatta tgcagttttt aaagtttata acagtctgtt tggccattac
 tacacttttt actttataat ataaagcaa agttttgtc attaaatgaa tgtttgttga
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 atatttcaca tctttattat tgcagttttt tctagaaagc tctgagaagc tttctctgtc
 gcagctgtgt ataaaaattt taaaatgttg tatggtgttaa ataaactttt gtctacat
 MKAVRNLLIY IFSTYLLVMF GFNAAQDFWC STLVKGVYIG SYSVSEMFPK NFNCTWTLE P
 NPDPKYSIY LKFSKDLSC SNFSLLAYQF DHFSHEKIKD LIRKNHSIMQ LCNSKNAFVF
 LQYDNFIQI RMVFTNFPQ LQKKEEDQK SFEEFLVNLK VSPSQFGCHV LCTWLESCLK
 SENGRTESCQ IMYTKCTCPQ HLGEGIDDQ SLILNNVVL PLNEQTEGCL TQELQTTQVC
 NLTREAKRPP KEEFGMMGDH TIKSORPRSV HEKRVPEQA DAAKEMAQTG ESGVEEWSOW
 STCSVTCGQG SQVRTRTCVS PYGTHCSGPL RESRVCNNTA LCPVHGWEW WSPWSLCSFT
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 QORSRQCTAA AHGSECRGP WAESRECYNP ECTANGQWNQ WGHWSGCSKS CDGGWERRIR
 TCQGAUITGQ QCEGTGEYR RCSEQRCPAP YEICPEDYLM SMWKRTPAG DLAFNQCPLN
 ATGTTSRRCs LSLHGVAWE QPSFARCIS EYRHLQHSIK EHLAKQRM L AGDMSQVTK
 TLLDLTQRKN FYAGDLLMSV EILRNVTDTF KRASYIPASD GVQNFFQIVS NILDEENKEK
 WEDAQQIYPG SIELMQVIED FIHIVGMGM DFQNSYLMTG NVVASIQKLP AASVLTIDINE
 PMKGRKGMVD WARNSEDRVV IPKSIFTVS SKELDESSVE VLGAVLYKNL DLILPTLRNY
 TVINSKIIV TIRPEKTTD SFLEIELAHL ANGTINPYCV LWDDSKTNES LGTWSTQGCK
 TVLTDASHTK CICDRLSTFA IIAQQPREII MESSGTPSVT LIVSGSLSCL ALITLAVVYA
 ALWRYIRSER SIILINFCLS IISSNIIIV GQTQTHNKS I CTTTTFALHF FFLASFQWVL
 TEAWQSYMAV TGKIRTRLIR KRFLCLGWGL PALVAVTSVG FTRTKGYGTD HYCWLSEGG
 LLYAFVGPAA AVVLVNMVIG ILVFNKLVS RAGQMSSEPHS GLTLKCAKCG
 VVSTTALSAT TASNAMASLW SSCWVLPFLA LTWMSAVLMA TDKRSILFQI LFAVFDLSLQ
 FVIVMVHCIL RREVQDAFRC RLKNCQDPIN ADSSSEFPNG HAQIMTDFEK DVIDACRSVL
 HKDIGPCRAA TITGTLSTRIS LNDEEEKGT NPEGLSYSTL PGNVISKVII QQPTGLHMPM
 SMNELSNPCL KENSELRR T VYLCTDDNLR GADMDIVHPQ ERMWESDYIV MPRSSVNNQP
 SMKEESKMI GMETLPHERL LHYKVNPEFN MNPPVMDQFN MNLEQHLAPQ EHMQLPFEP
 RTAVKNFMAS ELDDNAGLSR SETGSTISMS SLERRKSRY S DLDFEKVMHT RKRHMELFQE
 LNQKFQTLDR FRDIPNTSSM ENPAPKNPW DTFKNPSEYP HYTTINVLDT EAKDALELRP
 AEWEKCLNLP LDVQEGDFQT EV

347 6031 SIV/HIV Receptor BONZO NM_006564 Homo sapiens

gcagaccttg cttcatgagc agctcatct ctggacaaaa ctggcaaacg atctctgctg A
 gtgttcatca gaacagacac catggcagag catgattacc atgaagacta tgggttcagc
 agtttcaatg acagcagcca ggaggagcat caagacttcc tgcagttcag caaggtcttt
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 ctcactctggg tgatatccct gctgggtttcc ttgccccaaa tttatctatgg caatgtcttt

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|-----|------|---|-------------|---|-----------------|
| 348 | 6031 | SIV/HIV Receptor BONZO | NP_006555.1 | <p>aatctcgaca agctcatatg tggttaccat gacgaggcaa ttccactgt ggttcttgcc accagatga cactggggtt cttcttgcca ctgctcacca tgattgtctg ctattcagtc ataatcaaaa cactgcttca tgctggaggc ttccagaagc acagatctct aaagatcaac ttctctgtga tggctgtgtt cctgctgacc cagatgcct tcaacctcat caagtctcat cgcagcacac actgggaata ctatgccatg accagcttic actacacct catggtgaca gaggccatcg catacctgag ggcctgcctt aacctctg gttgcctccc ttacctggg aagtttcgaa agaacttctg gaaacttggt aaggacatg gttgcctccc ttacctggg gtctcacatc aatggaaatc ttctgaggac aattccaaga cttttctgc ctccacaat gtggaggcca ccagcatgtt ccagttatag gcttgccag ggttcgaga agctgctctg gaatttgcaa gtcattgctg tgcctcttg atgtgttgag gcaggctttg ttatagctt gcgcatctc atggagaagt tatcagacac tctggtggt ttggaatgct tcttctcagg catgaacatg tactgttctc ttcttgaaca ctcatgtga aagcccaagt aggggtcta aaatttttaa ggactttcct tctctcatc ccaagaatgc tgaaccaag ggggatgaca tgtgactcct atgatctcag gttctcctg attgggactg gggctgaagg ttgaagaggt gagcacggcc aacaaagctg ttgatggtag gtggcacact ggtgcccac gctcagaagg ctcttctgac tactgggcaa agagtgtaga tcagagcagc agtgaataca agtgcctggca ccaccaggca cctcacagaa atgagatcag gctctgctc acctggggc ttgacttttg tataggtaga tgttcagatt gctttgatta atccagaata actagacca gggactatga atgggcaaaa ctgaattata agaggctgat aattcagtg gtccatggaa tgcttgaaaa atgtgcaaaa cagcgtttaa gactgtaatg aatctaagca gcatttctga agtggactct ttggtggctt tgcattttaa aaatgaaatt ttccaatgtc tgccacacaa acgtatgtaa atgtatatc ccacacacat acacacatat gtcatatatt actagcatat gagtttcata gctaagaaat aaaactgtta aagctccaa act</p> <p>MAEHDYHEDY GFSSFNDSQ EEHQDFLQFS KVFLPCMVLV VFVCGLVGNS LVLVLSIFYH P KLQSLTDVFL VNLPLADLVF VCTLFPWAYA GIHEWFGQV MCKSLIGIYT INFYTSMLIL TCITVDRFIV VVKATKAYNQ QAKRMWGVK TSLLIWISL LVSLPQIIYG NVFNLDKLLC GYHDEAISTV VLATQMTLGF FLPLLTWIVC YSVIITKLLH AGGFQKHSRL KIIFLVMAVF LLTQMPFNLM KFIRSTHWEY YAMTSFHYTI MVTEAIAAYLR ACLNPVLYAF VSLKFRKNFW KLVKDIGCLP YLGVSHQWKS SEDNSKTFSA SHNVEATSMF QL</p> | Homo sapiens |
| 349 | 6204 | Lysophosphat idic Acid Receptor Edg4 | NM_004720 | <p>gccagatgg tcatcatggg ccagtgctac tacaacgaga ccctcgctt cttctataac A aacagtggca aagagctcag ctccactgg cggcccaagg atgtggtcgt ggtggcactg gggctgaccg tcagcgtgct ggtgctgctg accaatctgc tggatcatagc agccatcgcc tccaaaccgc gcttccacca gccatctac tactgctcg gcaatctggc cgcggctgac ctcttcgagg cggtggccta cctctctc atgtccaca ctggtcccc cacagccga ctttcacttg agggctgggt cctgcggcag ggctgctgg acacaagcct cactgctgctg gtggccacac tgctggccat cgcgtggag cggcacccga gtgtgatggc cgtgcagctg cacagccgcc tgcccctgg cgcgtggctc atgtcattg ttggcgtgtg ggtggctgcc ctgggctgg ggctgctgcc tgccactcc tggcactgcc tctgtgccct ggaccgctgc tcacgcatgg caccctgct cagccgctcc tattggccg tctgggctct gtcgagcctg cttgtcttcc tgctcatggt ggctgtgtac acccgcttt tcttctacgt gggcgggcga gtgcagcgca tggcagagca tgtcagctgc caccctcgct accgagagac cagctcagc</p> | Homo sapiens |

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|-----|------|--|-------------|---|-----|
| 350 | 6204 | Lysophosphat idic Acid Receptor Eg4 | NP_004711.2 | ctggtcaaga ctgttgatcat catcctgggg gcgttcgtgg tctgctggac accaggccag gtggtactgc tctggatgg ttaggctgt gagtctgca atgtcctggc ttagaaaaa tacttctac tgttgccga ggccaaacta ctggtgtaa ctgctgtgta ctcttgccga gatgctgaga tgcgcgcac ctctcgcgc ctctctgtct gcgcgtgctt ccgccagtc accgcgagt ctgtccacta tacatcctct gccaggggag gtgccagcac tgcacatcat cttcccgaga acggccacc actgatggac tccaccctt agctaccttg aacttcagcg gtacgcgga agcaacaaat ccacagccc tgatgacttg tgggtgctcc tggctcaacc caaccaacag gactgactg | 350 |
| 351 | 6213 | C-C Chemokine Receptor 5 | NM_000579 | cttcagatag attatatctg gactgaagga tctgcccac tacgtatctg gcatagtatt A ctgtgtagt gtagagcag agaacaaaa caaataaatc cagtgaagaa agcccgtaaa taaaccttca gaccagagat ctattctcca cacttaata gcttatttta agtcaactt aaaaagaaga actgttctct gattcttttc gccttcaata cacttaata gcttatttta agtcaactt aaaaagaaga aaagaaacag catttctctac ttttatactg tctatatgat tgatttgac agtcatctg gccagaagag ctgagacatc cgttccccta caagaaactc tccccgggtg gaacaagatg gattatcaag tgtcaagtc aatctatgac atcaattatt atacatcgga gccctgcaa aaaatcaatg tgaagcaaat cgcagccgc ctctcctc cgtctactc actggtgttc atcttgggtt ttgtggcga catgctgtgc atctcatcc tgataaactg caaaggctg aagagcatga ctgacatcta cctgctcaac ctggccatct ctgacctgtt tttccttctt actgtcccc tctgggctca ctatgctgc gccagtggtg actttggaaa tacaatgtgt caactcttga cagggtctca ttttataggc ttcttctctg gaacttctt catcatcctc ctgacaatcg ataggtaact ggctgtctgc catgctgtgt ttgctttaa agccaggacg gtcacctttg ggtgtgtgac aagtgtgac acttggtgtg tggctgtgtt tgcgtctctc ccaggaaatca tctttaccag atctcaaaa gaaggtcttc attacacctg cagctctcat tttccataca gtcagtatca attctggaag aatttccaga cattaaagat agtcatcttg gggtgtgtcc tgcgctgtct tgtcatgttc atctgctact cgggaatcct aaaaactctg cttcggtgtc gaaatgagaa gaagaggcac aggtgtgtga ggcttatctt caccatcatg attgtttatt ttctcttctg ggctccctac aacattgtcc ttctctgaa cacttccag gaattctttg gcctgaataa ttgcagtagc tctaacaggt tggaccaagc tatgcaggtg acagagactc ttgggtatgac gactgtctgc atcaaccca tcatctatgc ctttgtcggg gagaagtcca gaaactacct cttagtcttc tcccaaacg acattgcaa acgttctctg aaatgctgtt ctattttcca gcaagaggct cccgagcag caagctcagt ttacaccca tccactgggg agcaggaat atctgtgggc ttgtgacac gactcaagt ggctgtgac ccagtcagag ttgtgcacat ggcttagttt tcatacacag cctgggctgg gggtggggtg ggagaggctt tttttaaaag gaagttactg ttatagaggg tctaagattc atccattat ttggcatctg tttaaagtag attagatctt ttaagcccat caattataga aagccaaatc | 351 |
| | | | | ctggtcaaga ctgttgatcat catcctgggg gcgttcgtgg tctgctggac accaggccag gtggtactgc tctggatgg ttaggctgt gagtctgca atgtcctggc ttagaaaaa tacttctac tgttgccga ggccaaacta ctggtgtaa ctgctgtgta ctcttgccga gatgctgaga tgcgcgcac ctctcgcgc ctctctgtct gcgcgtgctt ccgccagtc accgcgagt ctgtccacta tacatcctct gccaggggag gtgccagcac tgcacatcat cttcccgaga acggccacc actgatggac tccaccctt agctaccttg aacttcagcg gtacgcgga agcaacaaat ccacagccc tgatgacttg tgggtgctcc tggctcaacc caaccaacag gactgactg | |
| | | | | cttcagatag attatatctg gactgaagga tctgcccac tacgtatctg gcatagtatt A ctgtgtagt gtagagcag agaacaaaa caaataaatc cagtgaagaa agcccgtaaa taaaccttca gaccagagat ctattctcca cacttaata gcttatttta agtcaactt aaaaagaaga actgttctct gattcttttc gccttcaata cacttaata gcttatttta agtcaactt aaaaagaaga aaagaaacag catttctctac ttttatactg tctatatgat tgatttgac agtcatctg gccagaagag ctgagacatc cgttccccta caagaaactc tccccgggtg gaacaagatg gattatcaag tgtcaagtc aatctatgac atcaattatt atacatcgga gccctgcaa aaaatcaatg tgaagcaaat cgcagccgc ctctcctc cgtctactc actggtgttc atcttgggtt ttgtggcga catgctgtgc atctcatcc tgataaactg caaaggctg aagagcatga ctgacatcta cctgctcaac ctggccatct ctgacctgtt tttccttctt actgtcccc tctgggctca ctatgctgc gccagtggtg actttggaaa tacaatgtgt caactcttga cagggtctca ttttataggc ttcttctctg gaacttctt catcatcctc ctgacaatcg ataggtaact ggctgtctgc catgctgtgt ttgctttaa agccaggacg gtcacctttg ggtgtgtgac aagtgtgac acttggtgtg tggctgtgtt tgcgtctctc ccaggaaatca tctttaccag atctcaaaa gaaggtcttc attacacctg cagctctcat tttccataca gtcagtatca attctggaag aatttccaga cattaaagat agtcatcttg gggtgtgtcc tgcgctgtct tgtcatgttc atctgctact cgggaatcct aaaaactctg cttcggtgtc gaaatgagaa gaagaggcac aggtgtgtga ggcttatctt caccatcatg attgtttatt ttctcttctg ggctccctac aacattgtcc ttctctgaa cacttccag gaattctttg gcctgaataa ttgcagtagc tctaacaggt tggaccaagc tatgcaggtg acagagactc ttgggtatgac gactgtctgc atcaaccca tcatctatgc ctttgtcggg gagaagtcca gaaactacct cttagtcttc tcccaaacg acattgcaa acgttctctg aaatgctgtt ctattttcca gcaagaggct cccgagcag caagctcagt ttacaccca tccactgggg agcaggaat atctgtgggc ttgtgacac gactcaagt ggctgtgac ccagtcagag ttgtgcacat ggcttagttt tcatacacag cctgggctgg gggtggggtg ggagaggctt tttttaaaag gaagttactg ttatagaggg tctaagattc atccattat ttggcatctg tttaaagtag attagatctt ttaagcccat caattataga aagccaaatc | |
| | | | | ctggtcaaga ctgttgatcat catcctgggg gcgttcgtgg tctgctggac accaggccag gtggtactgc tctggatgg ttaggctgt gagtctgca atgtcctggc ttagaaaaa tacttctac tgttgccga ggccaaacta ctggtgtaa ctgctgtgta ctcttgccga gatgctgaga tgcgcgcac ctctcgcgc ctctctgtct gcgcgtgctt ccgccagtc accgcgagt ctgtccacta tacatcctct gccaggggag gtgccagcac tgcacatcat cttcccgaga acggccacc actgatggac tccaccctt agctaccttg aacttcagcg gtacgcgga agcaacaaat ccacagccc tgatgacttg tgggtgctcc tggctcaacc caaccaacag gactgactg | |
| | | | | cttcagatag attatatctg gactgaagga tctgcccac tacgtatctg gcatagtatt A ctgtgtagt gtagagcag agaacaaaa caaataaatc cagtgaagaa agcccgtaaa taaaccttca gaccagagat ctattctcca cacttaata gcttatttta agtcaactt aaaaagaaga actgttctct gattcttttc gccttcaata cacttaata gcttatttta agtcaactt aaaaagaaga aaagaaacag catttctctac ttttatactg tctatatgat tgatttgac agtcatctg gccagaagag ctgagacatc cgttccccta caagaaactc tccccgggtg gaacaagatg gattatcaag tgtcaagtc aatctatgac atcaattatt atacatcgga gccctgcaa aaaatcaatg tgaagcaaat cgcagccgc ctctcctc cgtctactc actggtgttc atcttgggtt ttgtggcga catgctgtgc atctcatcc tgataaactg caaaggctg aagagcatga ctgacatcta cctgctcaac ctggccatct ctgacctgtt tttccttctt actgtcccc tctgggctca ctatgctgc gccagtggtg actttggaaa tacaatgtgt caactcttga cagggtctca ttttataggc ttcttctctg gaacttctt catcatcctc ctgacaatcg ataggtaact ggctgtctgc catgctgtgt ttgctttaa agccaggacg gtcacctttg ggtgtgtgac aagtgtgac acttggtgtg tggctgtgtt tgcgtctctc ccaggaaatca tctttaccag atctcaaaa gaaggtcttc attacacctg cagctctcat tttccataca gtcagtatca attctggaag aatttccaga cattaaagat agtcatcttg gggtgtgtcc tgcgctgtct tgtcatgttc atctgctact cgggaatcct aaaaactctg cttcggtgtc gaaatgagaa gaagaggcac aggtgtgtga ggcttatctt caccatcatg attgtttatt ttctcttctg ggctccctac aacattgtcc ttctctgaa cacttccag gaattctttg gcctgaataa ttgcagtagc tctaacaggt tggaccaagc tatgcaggtg acagagactc ttgggtatgac gactgtctgc atcaaccca tcatctatgc ctttgtcggg gagaagtcca gaaactacct cttagtcttc tcccaaacg acattgcaa acgttctctg aaatgctgtt ctattttcca gcaagaggct cccgagcag caagctcagt ttacaccca tccactgggg agcaggaat atctgtgggc ttgtgacac gactcaagt ggctgtgac ccagtcagag ttgtgcacat ggcttagttt tcatacacag cctgggctgg gggtggggtg ggagaggctt tttttaaaag gaagttactg ttatagaggg tctaagattc atccattat ttggcatctg tttaaagtag attagatctt ttaagcccat caattataga aagccaaatc | |

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|-----|------|--------------------------------|-------------|--|-----------------|
| 352 | 6213 | C-C Chemokine Receptor 5 | NP_000570.1 | <p> aaaatatgtt gatgaaaaat agcaaccttt ttatctcccc ttacatgca tcaagttatt gacaaactct cctttcactc cgaagtctcc ttatgtatat ttaaaagaaa gcctcagaga attgctgatt cttgagttaa gtgatctgaa cagaaatacc aaaattattt cagaaatgta caacttttta cctagtacaa ggaacatat aggttgtaaa tgtgtttaaa acaggctctt gtcttgctat ggggagaaaa gacatgaata tgattagtaa agaaatgaca cttttcatgt gtgatttccc ctccaaggtg ggaagtcttc taaatgagaa ggaatttgag ttggtatcat ttgtggcctg ggagagctgg ggaagcttct aagcactgca tgggcaagct tggctgtaga tattgctggc aaagacagaa gcctcactgc aagcactgca tgggcaagct tggctgtaga aggagacaga gctggttggg aagacatggg gaggaaggac aagcctagat catgaagaac cttgacggca ttgctccgtc taagtcatga gctgagcagg gagatcctgg ttggtgttgc agaaggttta ctctgtggcc aaaggagggt caggaaggat gagcatttag ggcaaggaga ccaccaacag cctcaggctc aggttgagga tggcctctgc taagctcaag gcgtgaggat gggaaggagg gaggtattcg taaggatggg aaggaggagg gtattcgtgc agcatatgag gatgcagagt cagcagaact ggggtggatt tgggttggaa gtgagggtca gagaggatc agagagaatc cctagtcttc aagcagattg gaaaaacct tgaagaagca tcaagcacag aaggaggagg aggaggttta ggtcaagaag aagatggatt ggtgtaaaa gatgggtctg gttgcagag cttgaacaca gctcaccca gactcaggc tgtctttcac tgaatgcttc tgacttcata gatttcttc ccatccagc tgaaatactg aggggtctcc agggaggagc tagatttatg aatacacgag gtatgaggtc taggaacata cttcagctca cacatgagat ctaggtgagg attgattacc tagtagtcat ttcatgggtt cttggaggga ttctatgagg caaccacagg cagcatttag cacatactac acattcaata agcatcaaac tcttagttac tcattcaggg atagcactga gcaaacatt gagcaagggt gtccatata ggtgagggaa gcctgaaaaa ctaagatgct gcctgcccag tgcacacaa gttaggtatc attttctgca tttaaccgtc aataggcaaa gggggggaagg gacatattca ttggaata agctgccttg agccttaaaa' cccacaaaaa tacaatttac cagctccgtt agacaaacca gaatgggggt ggggggggcg ccttaggtac ttattccaga tgccttctcc agacaaacca gaagcaacag aaaaaatcgt ctctccctcc ctttgaatg aataacccc ttagtgtttg ggtatatcca tttcaaaagg agagagagag gtttttttct gtltcttctc atatgattgt gcacatactt gagactgttt tgaatttggg gtagggctaa aacctcata gtacaggtaa ggtgagggaa tagtaagtgg tgagaactac tcagggaatg aaggtgtcag aataataaga ggtgctactg actttctcag cctctgaata tgaacgtga gcatgtggc tgcagcagg aagcaacgaa gggaaatgct ttctcttttg ctcttaagt gtggagagtg caacagtagc ataggacctt acctctggg ccaagtcaaa gacattctga catcttagta ttgcatatt cttatgtatg tgaaagtac aaatgcttg aaagaaaaa tgcactcaat aaaaaacacc ttcta MDYQVSPY DINYTSEPC QKINVKQIAA AAQWDFGNTM COLITGLYFI GFSGIFFII LKSMFDIYLL NLAISDLFFL LTVFVWAHYA RLPLPLYSLV FIFGVGNML VILLINCKR P LLTIDRYLAV VHAUFALKAR TVTFGVVTSV ITWVAVFAS LPGIIFRSQ KEGLHYTCSS HFPYSQYQFW KNFQILKIVI LGLVLPILVM VICYSGLFT LLRCRNEKKR HPAVRLIFTI MIVYFLEWAP YNIVLLNLF QEFFGLNCS SNRLDQAMQ VTETLGMTHC CINPIIYAFV GEKFRNYLLV FFQKHIAKRF CKCSIFQQE APERASSVYT RSTGEQEISV GL </p> | Homo sapiens |
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|-----|------|--|-------------|---|--------------|
| 353 | 6363 | Chemokine (C-C motif) Receptor- like 2 (CCRL2) | NM_003965 | <p>tctgtctgtg ggaagtggg cacaggttaa aagaatgttt tatttcagtc ttctgaataa A</p> <p>gggaattact ctggctaaaa ttagcttcca gaaagggaaa gtggggctgt atgaatccag</p> <p>gtccagtttg ttgttcttc caggataagg cagctgtcgg aggggaaaat catctcccat</p> <p>ttctccacag ggcagcttga agatggccaa ttacacgttg gcaccaggg atgaatatga</p> <p>tgctctcata gaaggtgaac tggagagcga tgaggcagag caatgtgaca agtatgacgc</p> <p>ccaggcactc tcagcccagc tgggtccatc actctgctc gctgtgtttg tgatcgggtgt</p> <p>cctggacaat ctctctgttg tgcttacct ggtaaaatat aaaggactca aacgcgtgga</p> <p>aaatatctat cttctaaaact tggcagtttc taaactgtgt ttcttgctta ccttgcctt</p> <p>ctgggtcat gctggggggc atcccatttg taaaatttc attggactgt actcgtgtgg</p> <p>cctgtacagt gagacattt tcaattgctt tctgacttg caaaggtacc tagtgtttt</p> <p>gcacaaggc aactttttct cagccagag gaggtgccc tgtggcatca ttacaagtgt</p> <p>cctggcatg gtaacagcca ttctggccac ttgtccctgaa tacgtgttt ataaacctca</p> <p>gatggaagac cagaaatata agtgtgcat tagcagaact cccttctgc cagctgatga</p> <p>gacattcttg aagcattttc tgactttaaa atgaacatt cgtgttctg tcttccccct</p> <p>atttattttt acattttctt atgtgcaaat gagaaaaaca ctaaggttca gggagcagag</p> <p>gtatagcctt ttcaagcttg tttttccat aatggtatg ttcttctga tgtggcgcc</p> <p>ctacaattt gcatttttcc tgtccactt caaagaacac ttctccctga gtgactgcaa</p> <p>gagcagctac aatctggaca aaagtgttca catcactaaa ctcacgcca caccactg</p> <p>ctgcatcaac cctctcctgt atgcgtttct tgatgggaca tttagcaaat acctctgcc</p> <p>ctgtttccat ctgctgtagt acaccccat tcaacccagg gggcagctc cacaaggcac</p> <p>atcgaggga gaacctgacc attccacga agtgtaaat agcatccac aaatgcaaga</p> <p>agaataaaca tggattttca tctttctgca ttatttctg taaattttct acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttgt aagcactgaa</p> <p>tttgtctcag gcaccgtgca aggtcttcta caaacgtgag ctcttctgcc tcttaccact</p> <p>tgctccatagt gtggatagga ctagtctcat ttctctgaga agaaaaactaa ggcgcggaaa</p> <p>tttgtctaa atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt</p> <p>tgctcagagc ctacgcttgg tccagaacat caaactccaa accctgggga caaacgacat</p> <p>gaaataaatg tatttataaa catct</p> <p>NP_003956.1 MANYTIAPED EYDVLIIEGEL ESDEAEQCDK YDAQALSAQL VPSLCSAVFV IGVLNLLVV P</p> <p>LILVKYKGLK RVENIYLNL AVSNLCFLLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTQRYL VFLHKNFFS ARRRVPCGII TSVLAWVTAI LATLPEYVVY KPMEDQKYK</p> <p>CAFSRTPFLP ADETFWKHL TLKMNISLV LPLFIETFLY VQMRKTLRFR EQRYSLFKLV</p> <p>FAIMVFLIM WAPYNIAFFL STFKEHFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY</p> <p>AFLDGTFISKY LCRCFHLRSN TPLQPRGQSA QGTSREEPDH STEV</p> <p>atgcgagccc cgggcgcgct tctcgccgc atgcctggc tactgtctt gctactgctc A</p> <p>aaggtgtctg ctcttcttgc cctcggggtc gccctggcgc ccagaaaaa aacttgtctg</p> <p>ggggagagct gctcacctac agtgatccag gcctcgcca gggacgcctg gggaccgttg</p> <p>aattctgcaa gagacgttct gcgagcccca gcacccaggg aggagcaggg ggcagcgttt</p> <p>cttgcgggac cctcttggga cctgcggcg gccccggcg gtgacccggc tgcaggcaga</p> <p>ggggcgagg cgctcgagc cggaccccc cggacctcaa ccaggccacc tggccccctg</p> <p>aggtggaaaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccccacg</p> | Homo sapiens |
| 354 | 6363 | Chemokine (C-C motif) Receptor- like 2 (CCRL2) | NP_003956.1 | <p>gaaataaatg tatttataaa catct</p> <p>NP_003956.1 MANYTIAPED EYDVLIIEGEL ESDEAEQCDK YDAQALSAQL VPSLCSAVFV IGVLNLLVV P</p> <p>LILVKYKGLK RVENIYLNL AVSNLCFLLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTQRYL VFLHKNFFS ARRRVPCGII TSVLAWVTAI LATLPEYVVY KPMEDQKYK</p> <p>CAFSRTPFLP ADETFWKHL TLKMNISLV LPLFIETFLY VQMRKTLRFR EQRYSLFKLV</p> <p>FAIMVFLIM WAPYNIAFFL STFKEHFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY</p> <p>AFLDGTFISKY LCRCFHLRSN TPLQPRGQSA QGTSREEPDH STEV</p> <p>atgcgagccc cgggcgcgct tctcgccgc atgcctggc tactgtctt gctactgctc A</p> <p>aaggtgtctg ctcttcttgc cctcggggtc gccctggcgc ccagaaaaa aacttgtctg</p> <p>ggggagagct gctcacctac agtgatccag gcctcgcca gggacgcctg gggaccgttg</p> <p>aattctgcaa gagacgttct gcgagcccca gcacccaggg aggagcaggg ggcagcgttt</p> <p>cttgcgggac cctcttggga cctgcggcg gccccggcg gtgacccggc tgcaggcaga</p> <p>ggggcgagg cgctcgagc cggaccccc cggacctcaa ccaggccacc tggccccctg</p> <p>aggtggaaaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccccacg</p> | Homo sapiens |
| 355 | 6446 | Pael Receptor (GPR37) | NM_005302 | <p>atgcgagccc cgggcgcgct tctcgccgc atgcctggc tactgtctt gctactgctc A</p> <p>aaggtgtctg ctcttcttgc cctcggggtc gccctggcgc ccagaaaaa aacttgtctg</p> <p>ggggagagct gctcacctac agtgatccag gcctcgcca gggacgcctg gggaccgttg</p> <p>aattctgcaa gagacgttct gcgagcccca gcacccaggg aggagcaggg ggcagcgttt</p> <p>cttgcgggac cctcttggga cctgcggcg gccccggcg gtgacccggc tgcaggcaga</p> <p>ggggcgagg cgctcgagc cggaccccc cggacctcaa ccaggccacc tggccccctg</p> <p>aggtggaaaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccccacg</p> | Homo sapiens |

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| 356 | 6446 | Pael Receptor (GPR37) | NP_005293.1 | gcoctccagc tcttccttca gatctcagag gaggaagaga aggtgccag aggcgtggc atttcgggc gttagccagga gcagagtgtg aagacagtcc ccggagccag cgatctttt tactggccaa ggagagccgg gaaactccag ggttccacc caagccctt gtccaaagc gccaatggac tggcggggca gaaaggtgg acaatgcac tcccggcgg ggcgtggcc cagaatggat ccttgggtga aggaatccat gagcctggg gtccccggc gggaaacag acgaaccggc gtgtgagact gaagaaccc tctaccgc tgaccagga gtcctatga gcctacggcgc tcatgtgtct gtccgtgtg atcttcggga ccggcatcat tggcaacctg gcggtgatgt gcacgtgtg ccacaactac tacatggga gcatctcaa ctccctcttg gccaaacctg ccttctggga cttctcatc atcttctct gcttcgctt ggtcatctt cacgagctga ccaagaagtgt gctgtggag gacttctct gcaagatcgt gccctatata gaggtcgctt ctctgggagt caccacctc accttatgt ctctgtcat agaccgctt cgtgctgcca ccaacgtaca gatgtactac gaaatgatg aaaactgtt ctcaacaact gccaaacttg ctgttatatg ggtgggagt ctattgttag cacttcaga agttgttctc cgccagctga gcaaggagga ttgtgggttt agtggcggag ctccggcaga aaggtgcatt attaagatct ctctgattt accagacacc atctatgtt tagccctcac ctacgacagt gcgagactgt ggtggtattt tggctgttac ttgtgttgc ccacgtttt caccatcacc tgctctctag tgactgcgag gaaaatccgc aagcctgtac ccgagggaaat aaacggcaga ttcaactaga gactcagatg aactgtacag tagtggcatt gaccatttta tatggattt gcattattcc tgaataatc tgcaacattg ttactgcta catggctaca gggttttcac agcagacaaat ggacctcctt aatataatca gccagtctt ttgttctt aagtcctgtg tcaccccgat cctcctttt tgctctgtga aaccttcag tcgggccttc atggagtgtc gctgctgtg ctgtgaggaa tgcatcaga agtctcaac ggtgaccagt gatgacaatg acaacgagta caccacggaa ctgcaactct cgcctttcag taccatacgc cgtgaaatgt ccacttttgc ttctgtcggga actcattgct ga MRAPGALLAR MSRLLLLL KVSASSALGV APASRNCTCL GESCPTVIQ RRGRDAWPGP P NSARDVLRAR APREEQGA F LAGPSWDLPA AGRDPAAGR GAESAAGPP GPTRPFGPW sapiens RWKGARGQEP SETLGRNPT ALQLFLQISE EEKCPRGAG ISGRSQEQSV KTVPGASDLF YMPRRAGLKQ GSHHKPLSKT ANGLAGHEGW TIALPGRALA QNGSLGEGIH EPGGPRGNS TNRRVRLKNP FYPLTQESYG AYAVMCLSW IFGTGIGNL AVMCIVCHNY YMRSTNSLL ANLAFWDFLI IFFCLPLVIF HELTKWILLE DFCKIVPYI EVASLGWTF TLCAICIDRF RAATNVQMY EMIECSST ARLWVYFGCY FCLPLFTIT CSLVTARKIR KAERACTRGN IKISPLDPT IYVLTALYDS ARLWVYFGCY FCLPLFTIT CNIVTAYMAT GVSQQTMDLL NIISQFLFF KRQIQLESQM NCTVVALTIL YGFCIIPENI CNIVTAYMAT GVSQQTMDLL NIISQFLFF KSCVTPVLLF CLCKPFSRAF MECCCCCEE CIQKSTVTS DDNDNEYTTE LELSPFSTIR REMSTFASVG THC atgagagctg tcttcaccca aggtgtcga gagcaacctg cggcattctg ctaccagtg A aatgggtctt cccccagac agtacatact ctggcctacc agttgtcat ctacctgacc tgtgcagcag gcactcgat tatcgtgcta gggaatgtat ttgtggcatt tctgtgtcc tacttcaag cgttccac gccaccaac tctcgtgtc tctcctggc cctggctgac atgtttcttg gtctgtgtgt gctgccccctc agcacattc gctcagtgga gagctgtgg ttcttcgggg acttctcttg ccgctcgcac acctacctg acacctctt ctgctcacc | Homo sapiens |
| 357 | 6536 | Putative Neurotransmitter Receptor (PNR) | NM_003967 | atgagagctg tcttcaccca aggtgtcga gagcaacctg cggcattctg ctaccagtg A aatgggtctt cccccagac agtacatact ctggcctacc agttgtcat ctacctgacc tgtgcagcag gcactcgat tatcgtgcta gggaatgtat ttgtggcatt tctgtgtcc tacttcaag cgttccac gccaccaac tctcgtgtc tctcctggc cctggctgac atgtttcttg gtctgtgtgt gctgccccctc agcacattc gctcagtgga gagctgtgg ttcttcgggg acttctcttg ccgctcgcac acctacctg acacctctt ctgctcacc | Homo sapiens |

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|-----|------|---|-------------|---|-----------------|
| 358 | 6536 | Putative Neurotransmitter Receptor (PNR) | NP_003958.1 | <p> tccatcttcc atctctgttt catttccatt gaccgccact gtgccatctg tgacccccctg ctctatccct ccaagtccac agtgagggtg gctctcaggt acatcctggc aggatggggg gtgccgcgag catacacttc gttattccct tacacagatg tggtagagac aaggtctcagc cagtggtcgg aagagatgcc ttgtgtgggc agttgccagc tgctgtctaa taaattttgg ggctgggttaa acttcccttt gttctttgtc cctgtccctc ttatgatcag cttgtatgtg aagatctttg tggttgctac cagacaggct cagcagatta ccacattgag caaaagcctg gctggggctg ccaagcatga gagaaaagct gccaaagccc tgggcattgt tgtgggcata tacctcttgt gctggctgcc cttcaccata gacacgatgg tcgacagcct ccttcacttt atcacacccc cactggtctt tgacatcttt atctggtttg cttacttcaa ctcagcctgc aaccccatca tctatgtctt tctctaccag tggtttcgga aggcactgaa actcacactg agccagaagg tcttctcacc gcagacacgc actgttgatt tgtaccaaga atga MRAVFIQGA EHPAAFCYQV NGSCPRTVHT LGIQLVIYLT CAAGMLIIVL GNVFVAFAVS P YFKALHTPTN FLILSLALAD MFLGLLVLP STIRSVESCW VPAAYTSLFL YTDVETRLS SIFHLCFISI DRHCAICDPL LYPSTKTVRV ALRYILAGWG VPAAYTSLFL YTDVETRLS QWLEEMPCVG SCQLLNKFW GWLNFPLFFV PCLIMISLYV KIFVATRQA QQITTLKSLS AGAAKHERKA AKTLGIVVGI YLLCWLPTI DTMDVSLHF ITPPLVFDIF IWFAYFNSAC NPFIYFSYQ WFRKALKLTL SQKVFSPQTR TVDLYQE </p> | Homo sapiens |
| 359 | 6777 | G Protein- Coupled Receptor TM7SF1 | NM_003272 | <p> cggcgcatg cgcggagacc cccgcggggg cggcgggggc cgtgagcccc gatgaggccc A gagcgtcccc ggcgcgcgg cagcgcctcc gcccagatgg agaccccc gtgggaccca gccgcaacg actcgtgcc gccacgctg acccggccg tgcctcccta cgtgaagctt ggcctcaccg tgcgtacac cgtgttctac ggcgtgctct ccgtgttcat ctacgtgcag ctctggctgg tgctgcgta ccgccacaag cggctcagct ccagagcgt cttcctcttt ctctgcctct tctgggctc cctgcggacc gtcctctct ccttctact caaagacttc gtggcgcca attcgtcag cccctcgtc tctcgtgc tctactgctt cctgtgtgc ctgcagtttt tcacctcac gctgatgaac ttgtacttca cgcaggtgat ttcaaaagcc aagtcaaat attctccaga attactcaa taccggttgc cctctacct ggctccctc ttcatcagcc ttgtttctt gttgtgaat ttaacctgtg ctgtgctggt aaagacggga aattgggaga ggaaggttat cgtctctgtg cgaagtggca ttaatgacac gctcttcgtg ctgtgtgccg tctctctc catctgtct tacaatact ctaagatgtc cttagccaac attacttgg agtccaaagg ctcctccgtg tgtcaagtga ctgccatcgg tgtcacctgtg atactgctt acactctcg ggcctgctac aacctgttca tctgtcatt tctcagaac aagagcgtcc attccttga ttatgactgg tacaatgtat cagaccaggc agatttgaag aatcagctgg gagatgctgg atacgtatta ttggagtggt tgttatttgt ttgggaactc ttacctacca ccttagtctg ttaattcttc cgagttagaa atctacaaa ggaccttacc aacctggaa tgggtcccgag ccatggattc agtcccatg cttatttctt tgacaacctt cgaagatag acagtatga tgaccttgc tggacattg cctctcaggg acttcaggga ggttttgctc cagattacta tgattgggga caaacaacta acagcttctt ggcacaagca ggactttgc aagactcaac ttgtgatcct gacaaaccaa gccttgggta gcatcagta acagttttat ggaagattcc tcagatgaaa agcttcagaa aagcatagt acagctgaat ttttagggca ctttctcta agaaatagaa cttgattttt attgtttaca ggtttccaat ggccccatag gaataagcaa taatgtagac tgataaaccc ttattttagt actaaagagg </p> | Homo sapiens |

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|-----|---|-------------|------|--|-----------------|
| 360 | G Protein- Coupled Receptor TM7SF1 | NP_003263.1 | 6777 | gagccttgct atttcagtggt gtataattta aactttttta agaaaatctg tacttttata aagatgtatt ttgtataact taaataataa tgctaaagta tactagggtt tttttttctt gagaatgtta ctgcaatcat gttgtagttt gcacagactt ttatgcataa ttcactttta aaatatagaa tatatggtct aatagttttt taaagttttt ggactaaagt attccacaaa tcttacctct ttaggtcact gatgtcact cagattctga gtgccacatt gtagactcc taaaatacag ttgacaactt agccaatgc aactccagt ttgataatta aatgaatcg gtaaacgagc agactgtaag gtcttttagg attttttttt aagtttcagg ccgtaggttc ctcaaggaaat ctcttaagtt ttgcccaag actggtactt cctttcagta gggcgctaat gtatacacat taatgataag ttgataacat taaaaatgta gctgacttat cctattaaac ctcctctgct atgttcac | Homo sapiens |
| 361 | Purinergic Receptor P2Y11 | NM_002566 | 6853 | atggatcgag gtgccaaagtc ctgcccctgccc aactcttggt cagctgcccga cgacaaactc A agtgggttc aggggagctt cctgtggccc atactggtgg ttgagttcct ggtggccgtg gccagcaatg gctggccct gtaccgcttc agcabcgga agcagcgcct atggcacccc gccgtggtct tctctgtcca gctggcagtc agcagctgc tctgcgtctt gacgtgccc ccgtggccg cctacctata tcccccaag cactgcgct atggggaggc cgcgtgccc ctggagcgt tctcttcac ctgcaacctg ctggcgagcg tcatcttcac cactgcatc agcctcaacc gctacctggg catctgtcac cctctcttcg ccgaaagcca cctgcgaccc aagcacgct gggccgtgag cgtgcccggc tgggtcctgg ccgcccctgt gccatgccc acactcagct tctccacct gaagagggcg cagcagggg cgggcaactg cagcgtggcc aggcccagg cctgcacaa gtgtctgggg acagagacc acgggctggc ggctacaga gcgtatagcc tgggtctggc ggggttggc tgcggcctgc cgtgtgctt cagctggca gcctacggcg cctcggggcg ggcgtgcta cgcagcccg geatgactgt ggcgagaga ctgcgttgg cagcgttgg gtccagtgg tggccctct acgccagctc ctatgtgcc taccacatca tgcgggtgct caactggat gctgcggcg gctggagcac ccgtgccc agctttgcag acatagccca ggcacagca gccctggagc tggggcccta cgtgggctac caggtgatgc ggggctcat gccctggcc tctgtgtcc acctctact ctacatggc gcagtggcca gctggggctg ctgctggcga cactgcccgc gctacaggga cagctggaa ccagaggagc ccaagagcac tggccaagcc ctgcccctca atgccacagc cgccccctaaa ccgtcagagc cccagtcggc tgaactgagc caatga | Homo sapiens |
| 362 | Purinergic Receptor P2Y11 | NP_002557.1 | 6853 | MDRGAKSCPA NFLAAADDKL SGFGDFLWP ILVVEFLVAV ASNGLALYRF SIRQRPWHP P AVFVSQIYV SDLLCALTLPLAAYLYPPK HWRYGEAAR LERFLFTCNL LGSVIFITCI SLNRYLGIVH PFEARSHLRP KHAWAVSAG WYLAALLAMP TISFSLKRP QQGAGNCSSVA RPEACIKCLG TADHGLAAYR AYSILVIAGLG CGPLLLTLA AYGALGRAVL RSPGMTVAEK LRVALVASG VALYASSYVP YHIMRVLNVD ARRWSTRCP SFADIAQATA ALELGPYVGY | Homo sapiens |

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|-----|------|--|-----------|---|-----------------|
| 363 | 6921 | G Protein- Coupled Receptor GPR39 | NM_001508 | QVMRGLMPLA FCVHPLLYMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPQSRSLQ Q | Homo sapiens |
| | | | | atggcttcac ccagcctccc gggcagtgac tgctcccaaa tcattgatca cagtcagtgc A cccagatttg aggtggccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttctgtatgg gccttctggg gaacagcgcc accattcggg tcaccacaggt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatgggta ttctggttg ctgagacatc ttggtgttcc tcactggcat gcccatggag ttctacagca tcacttgga tccccgtacc acgtccagct acaccctgct ctgcaagctg cacactttcc tcttcgaggc ctgcagctac gtacagctgc tgcacgtgct gacactcagc tttagcgctt acatcgccat ctgtcacccc ttcaggtaca aggtgtgtc gggaccttgc caggtgaagc tgctgattgg cttcgtctgg gtcacctcgg cctggtggc actgcccctg ctgtttgcca tgggtactga gtacccccctg gtgaacgtgc ccagccacgg ggtctcact tgcaaccgtt ccagcacccg ccaccacgag cagcccagga cctccaatat gtccatctgt accaacctct ccagccgctg gaccgtgttc cagtcacaga tcttcggcgc ctctgtgttc tacctgtgg tctgtctctc cgtagccttc atgtgctgga acatgatgca ggtgctcatg aaaagccaga agggctcgtc gggcgggggc acggggcctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag accatcatct tctgaggtg gatgtgttg acattggcg tatgctgat gcccaaccag attcggagga tcatggtgc gggcaaaccc aagcacgact ggacgaggtc ctacttcgg gggtacatga tctcctctcc ctctcggag acgtttttct acctcagctc ggtcatcaac cgcctcctgt acacggtgc ctgcagcag tttcggcggg ttgtcgtgca ggtgctgtgc tgccgctgt cgtgcagca cgccaaccac gagaagcgc tgccgtgata tgcgactcc accaccgaca gcgccgctt tgtgcagcg cgtgtgctct tgcgtcccc gcgccagctc tctgcaagga gaactgagaa gattttctta agcacttttc agagcgaggc cgagccccag tctaagtcct agtcattgag tctcagatca ctagagccca actcaggcgc gaaaccagcc aattctgctg cagagaatgg ttttcaggag catgaagttt ga NP_001499.1 MASPSLPGSD CSQIDHSHV PEFEVATWIK ITLILVYLII FVMGLLGNSA TIRVTQVLQK P Homo sapiens | |
| 364 | 6921 | G Protein- Coupled Receptor GPR39 | | ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFANGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSMIC TNLSSRWTFV QSSIFGAFV YLWVLLSVAF MCWNMMQVLM KSKQKSLAG TRPPQLRKSE SEESRTARRQ TIIFRLIIV TLAVCWMPNQ IRIMAAPK KHDWTRSYFR AXMILLPFE TFFYLSSVIN PLLYTVSSQ FRRVQVQLC CRSLQHANH EKRLRVHAHS TTDSARFVQR PLLFASRRQS SARTEKIFL STFQSEAEPO SKSQSLSLIES LEPNSGAKPA NSAAENGFOE HEV gagacaggtgc cccgggagct tcccgcctgc gaagaccag acggctgcag gagccccggc A agcctcgggg tcagcggcac catgaacgtc tcgggtcgc caggggccgg gaacgcgagc cagcgcgggc gcggggggag ctggcaccct cggcggtgca tctgtcccc gctcttcgcg ctcatcttcc tctggtggc cgtgggcaac acgtggtgc tggcggtgct gctgcgcggc ggcaggcg tcagcactac caacctgtc atcttaaac tggcggtggc cgacctgtgt tctatcctgt gctgctgccc ctccaggcc accatctaca cctggagcgt ctgggtgttc ggctcgtgc tgtgcaagg ggtgcacttc ctcatcttc tcaccatgca cgccagcagc ttcacgctgg ccgcccgtct cctggacagg tatctggcca tccgctaccc gctgcactcc | Homo sapiens |
| 365 | 7221 | Galanin Receptor Gair2 | NM_003857 | | Homo sapiens |

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|-----|------|------------------------------|-------------|---|--|-----------------|
| 366 | 7221 | Galanin Receptor GalR2 | NP_003848.1 | <p>cgcgagctgc gcacgcctcg aaacgcgctg gcagccatcg ggctcatctg ggggctgtctg ctgtcttctt ccgggccccta cctgagctac taccgccagt cgcagctggc caacctgacc gtgtgccat ccgcttggaag cgcctctcgc cgcctgcga tggacatctg cactctcgtc ttcagctacc tgcttctcgt gctgttctc ggctgaacct acgcgcgac cttgagctac ctctggcgcg ccgtcgacc ccgtggcgcg gctcgggtg cccggcgcg caagcgcaag gtgacacgca tgatctcat cgtggcgcg ctctctcgc tctgtggat gcccaccac gcgtcatcc tctgcgtgtg gttcgccag ttcgcgtca cgcgcgccac ttatcgctt cgcctctct cgcacctgtt ctcctacgcc aactcctcg tcaaccccat cgtttacgcy ctggtctcca agcacttcg caaaggctt cgcacgatct gcgcggcct gctggggcgt gccccaggcc gagctcggg ccgtgtgtg cgtgcgcgc ggggcaccca cagtggcagc gtgttgagc gcgagtcag cgcacctgtg cacatgacg aggcggcggg ggccttctg ccctgcccgc gcgttccca gccatgcac ctcgagcct ctcctggccc gtcctggcag ggcccaagg caggcgacag cctcctgac gttgatgtg cctgaagca cttagcgggc gcgctgggat gtcacagat tggagtcatt gttgggggac cgtggggccg</p> | <p>LRGGQAVSTT P VGNLTIVLAVL VHFLIFLTMH LSYYRQSOLA VAAGSGARRA KRVTRMILI SYANSCWNPI VYALVSKHFR DLHMSEAAG ALRPPPGASQ</p> | Homo sapiens |
| 367 | 7246 | Orexin Receptor 1 | NM_001525 | <p>ccctccctca ggaagtgtga ggctgagacc cgaaagacc tgggtgcaag cctccaggca A ccctgaaggg atgtggctga gggctggccc agctccctc ctctccctt gtagagccta ggatgccct cgtctcagc ggctcctgag ctcattgagc cctcagccc cccaggggcc cagatggggg tccccctgg cagcagagag ccgtccctc tgcctccaga ctatgaagat gagttctcc gctatctgtg gctgattat ctgtacccaa aacagtatga gtgggtcctc atcgacgct atgtggctgt gttcgtcgtg gccctgggtg gcaacacgct ggtctgcctg gccgtgtggc ggaaccacca catgaggaca gtcaccaact acttcattgt caacctgtcc ctggctgacg ttctggtgac tgctatctgc ctgcggcca gctgctggt ggacatcact gagtcctggc tgttcggcca tgcctctgc aagtcctcc cctatctaca gctgtgtgctc gtgtcagtgg cagtgtaac tctcagcttc atgcctcgg cctccatcct gggcatctgg caccactat tgttaagag ctcagcttc cgggcccgtg gctccatcct ggcctgtgctg gctgtgtcgc tggccatcat ggtgccccag gctgcagtc tggaaatgcag cagtgtgctg cctgagctag ccaaccgac acggtctctc tcagctctgt atgaacgctg ggcagatgac ctctatccca agatctacca cagttgcttc ttattgtca cctacctggc cccactgggc ctcatggcca tggcctattt ccagatatc cgaagctct gggggccgcca gatccccggc accacctcag cactgtgtcg gaactggaag cgcctcctc accagctggg gacccctggag cagggcctga tgggagagcc ccagcccccg ggcctgcct tcttggtgta agtgaagcag atgctgtcac ggaggaagac agccaagatg ctgagtgtgg tgtgctggt cctcgccctc tgctactgc ccatcagcgt cctcaatgtc ctaagaggg tgttcgggat gttcccgcaa gccagtgacc gcgaagctgt ctacgcctgc ttaccttct cccactggct ggtgtacgcc</p> | <p>ILTVDA FOATITLDG WVFGSLLCKA GLSLFSGPY LYLWRAVDP YALRIISHLV SGSVIERESS DLHMSEAAG ALRPPPGASQ</p> | Homo sapiens |

Homo
sapiens

368 7246 Orexin Receptor 1 NP_001516.1

MEPSATPGAQ MGVPDGRREP SPVPPDYDE FLRLWRDYL YPKQYEWVLI AAYVAVFVVA P
LVGNTLVCLA VMNRHMRV TNYFIVNL SLADVLVTAICL PASLLVDITE SWLFHALCK
VIPYLAQAVSV SVAVLTLSFI ALDRWYAICH PLLEFKSTARR ARGSSILGIWA VSLAIMVPOA
AVMECSSVLP ELANRTRLES VCDERWADDL YPKIYHSCFF IVTYIAPLGL MAMAYFQIFR
KLWGRQIPGT TSALVRNWK RPSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAKML
MVLLLVFALC YLPISVLNVL KRVFGMFROA SDREAVYACF TFSHMLVYAN SAANPIIYNE
LSGKFRQEFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVLTSTV
TTVLP

Homo
sapiens

369 7247 Orexin Receptor 2 NM_001526

gggggggggg taattgagct tcagctgagc cggacgtagc ttctctctcc tgggtgctatt A
gctgcagcct ccagtgccgg gtccttagtt cctcagctgc ctatctctcc ggtgcaacat
cgctgtataa gacagcaaa gacacgcaga agttgccgg cagaagactc cggaggcatt
ggctcagtaa cttttcacgt cttttctgc tcgggagccc cttctagcct ctccgcgcag
cctttccac cgcgaatcac cagtgctcat ggggcaggcg gagaggagct tgcagcattg
agcggaaccg gacttgagcc cgtgatgtcc ggcaccaat tggaggactc cccccctgt
cgcaactggt catctgcttc ggagctgaat gaaactcaa agcccttttt aaaccccc
gactatgacg acgaggaaat cctgcggtac cgtggagggg aatacctgca cccgaaagaa
tatgagtggg tectgatcgc cgggtacatc atcgtgttcg tctgggtctc cattgggaac
gtcctgggtt gctggcagc ggggaagaa caccacatga ggcgggtaac caactacttc
atagtcaatc ttctctggc tgatgtgctc tgaccatca cctgccttcc agccacactg
gtcgtggata tcaatgagac ctgggttttt ggacagtccc ttgcaaaagt gattccttat
ctacagaccg tgcgtgtgc tctgctgtc ctacacatga gctgtatcgc cttggatcgg
tggtatgcaa tctgtcacc cttgatgttt aagagcacag caaagcgggc cgttaacagc
attgtcatca tctggattgt cctctgcatc ataattgatt ctcaggccat cgtcatggag
tgacgacccg tgttcccagg cttagccaat aaacacccc tctttacggt gctgatgag
cgtcgggggtg gtgaaattta tcccaagatg taccacatct gtttcttctt ggtgacatac
atggcaccac tctgtctcat ggtgttggtc tatctgcaa ttttctgcaa actctggtgt
cgacagatcc ctggaacatc atctgtagt cagagaaaat ggaagcccc geagcctgtt
tcacagcctc gaggccagg acagcaaacg agtcccga gtagcgtgt ggcggctgaa
ataaagcaga tccgagccag aaggaaaaa ccccgatgt tgaatgtgt gcttttggtg
tttgcaattt gctatctacc aattagatc ctcaatgtgc taaagagagt atttgggagt
tttggccata ctgaagacag agagactgtg tatgctgtgt ttaccttttc acactggctt
gtatatgcca atagtgtgc gaatccaatt attataatt ttctcagtgg aaatttcga
gaggaattta aagctgcgtt ttctgtgtg tgccttgag ttaccatcg ccaggaggat
cggctcacca ggggacgaac tagcacagag agcgggaagt ccttgaccac tcaaatcagc

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|-----|------|---|-------------|---|-----------------|
| 370 | 7247 | Orexin Receptor 2 | NP_001517.1 | <p>aactttgata acatatcaaa actttctgag caagtgtgag tcaatgcat aagcacactc ccagcagcca atggagcagg accacttcaa aactggtaga atattattc atatgacaag gatacctgag taaaactatc ctttttaaaa tcaactggaa cagaaatttt attatcctat gatgtgaagc taaaattact tgtggatctt tttttttttt atctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaa aaaaaaaa aaa YIIVFWALI GNVLCVAVW INETQEPFLN PTDYDDEEFL RYLWREYLHP KEYEVLVLAG P FIIMIPQAI MECSTVFPGL ANKTTLFTVC DRWYAICHPL MFKSTAKRAR NSIVIIWVS LAYLIQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPGQ PTKSRMSAVA AEIKQIRARR KTARMLMVL LVFAICYLPI SILNVLKRVF GMFAHTEDERE TVYAWFTFESH WLIVYANSAAN PIIYNFLSGK FREEFKAAFS CCCLGVHHRQ EDRLTRGRTS TESRKSILTQ ISNFDNISKL SEQVVLTSIS TLPAANGAGP LQNW</p> | Homo sapiens |
| 371 | 8436 | Platelet- Activating Factor Receptor | NM_000952 | <p>ccagctgata ttccagccca cagcaatgga gccacatgac tcctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctcatgac taatggctac gtgctgtggg tctttgcccg cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc tgcatgctc tctttgatca ccttgccact ttggattgtc tactacaaa accagggcaa ctgctctgtg gccttctgg gcgtcatcac ggctggctgc cttttctca tcaaaccta taactggcc catcaagact gctcaggcca acaccgcaa ttataaccgc ttccaggcag taactggcc ggtggccatt gtgggagctg catcctactt gcgtggcacc tctttgtcct tggctcatctg ggtggccatt ggtcaggga acgtcactcg ctcatcctg gactctacca acacagtgc cgacagtctt ggtcaggga acgtcactcg ctgctttgag cattaacaga agggcagcgt gccagtcctc atcatccaca tcttcactgt gttcagcttc ttcctggtct tcctcatcat cctcttctgc aacctgtca tcatccgtac cttgctcatg cagccggtgc agcagcagcg caacgctgaa gtcaagcgcc gggcgctgtg gatgggtgac aggtcttggt cgggttctcat catctgcttc gtgcccacc acgtggtgca gctgccctgg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcacat caggtcacc cctgcctcct tagcaccacac tgtgtcttag accctgttat ctactgttc ctacacaaaga agttccgcaa gcacctacc gaaaagtctt acagcatcg cagtagccgg aaatgctccc gggccaccac ggatacgtc actgaagtgg ttgtgacctt caaccagatc cctggcaatt cctccaaaa ttagtccctg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLMVF ARLYPCKKEN EIKIFMVNLT P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGCLFFIN TYCSVAFGLV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEHEKGG SVPVLIHIF IVSFSLVFL IILFCNLVII RTLLMQPVQQ ORNAEVKRRR LMVCTVLAV FIICFVPHV VQLPWTLAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDP VIYCFLTKKF RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN</p> | Homo sapiens |
| 373 | 8509 | G Protein- Coupled Receptor Ls8509 | NM_007223 | <p>tgggggcgct ctccttcgtc cccgcccgcg tgtcaagctg tggcttagcg gccgagggac A cgaggggggc taagaaaggg ggcgcccagc catgcagagg caaaaggcg ctgcggaacg gggtccccct cgccagtgtc gaggcaggag gtcggagcca caagtgaagg gctgggaagc aggacccagc acggcgctct tggcaggcgg ccggggcgag gcccaggctg ctggggacgc</p> | Homo sapiens |

tcaggggctt ccaccaagc catggggcgt gtcggggcact cgggggtccc ctctgtggctc
cggccactcg gcgtgggcat tacgttggct tcacatgcc atccagctc gaagccaaca
ggactgaaa atagcttcgg ccaacgttc tccctccgt aaggagagg gtcgagtgcg
tcagcccgag gggactggag agggatgcc tagccctga gggcgagg accgcgggtt
gaaggaggca gcgggagcgg agagcgcct ccttgacct cgaatgctc ctctgtgtt
tcattcctg tcgagtggc tgggccacgc tgaccacct ggaggggga cggacgacgc
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cgggagccg gagtccacg ctgcctatgg gacataacg gagctggatc tctccaaatg
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tggccagtgt cctgtgttt gcagtaacca atgtggctga catctatgc acgtccacct
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ccacggtcat tgtgcctgt ggtgtgtgt tcccttctt gatactgac cgacggggccc
tgagtgcag ccagaagaag aaggtcatca tagcagcgt ccgacccca cagaacacca
tctctattcc ctatgcctcc cagcgggag ccgagctga cgcaccctg ctctccatgg
tgatgtctt catcttgtt agcgtgccct atgccacct ggtcgtctac cagactgtgc
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cctgctggc aaacctgtt cctcttcta ctgtgaaca atctgtccg aagtgttga
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gagagcagg gcccagttt ggcctctcg cccaccctt gagcacagt gactctgtat
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Homo
sapiensG Protein-
Coupled
Receptor
Is8509

8509

NP_009154.1

374

taccceatgt gcactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag
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 MVLWSTCRIT VFKSVNRFI KNLACSGICA SLGVPFDII LSTSPHCCWW IYTMFLCKV
 KFLHKVFCSV TILSFAIAL DRYYSVLYPL ERKISDAKR ELVMYIWAHA VVASVPVFAV
 TNVADIYATS TCTEWSNSL GHLVVLVYN ITTVIVPAV VFLFLILIRR ALSASQKKV
 IIAALRTPQN TISIPYASQR EAEHLATLLS MMVILCSV PYATLVVYQT VLNVPDTSVF
 LLLTAVWLPK VLLANPVLV LTVNKSVRKC LIGTLVQLHH RYSRRNVVST GSGMAEASLE
 PSIRSGSQLL EMFHIGQQOI FKPTDEEES EAKYIGSADF QAKEIFSTCL EGEQGPQFAP
 SAPPLSTVDS VSQVAPAPV EPETFPDKYS LQFGFPPFEL PPQWLSETRN SKRLLPPLG
 NTPEELIQTK VPKVGRVERK MSRNKVSIIF PKVDS
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 ctgctgcagt attttgttc tctaggttc atctcatct gctactgaa gattgttatc
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 gagaacaaga ggatcaaac aatgttgatt tccatctgg tgaccttgg agcctgtgg
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 cctttctct taagaaaata actctaataa ttcaaacac ctgcccgcca tcatttggg

Homo
sapiensNeuropeptide
Y Receptor
Type 6
Pseudogene

8896

NM_006173

375

| | | | | | |
|-----|------|---|-------------|--|--------------|
| 376 | 8896 | Neuropeptide Y Receptor Type 6 Pseudogene | NP_006164.1 | <p> caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tgttcacaga tacttttatt caatggaata tctacaaaag ttatgactaa tgatagcct agtaaaaaca ctgtataacc tccttagcac tgagaat mevslnhpas nttstknms affyfesccp pspallllci aytvvlivgl fgnsliliii P fkkrkaqnf tsilianisl sdtlvcvnci hftliytimd hwifgdmcr ltsyqvsvsi svsifslvft averyqlivn prgwksvth aywgitiwl fslllsipff lsyhltdpf rnslpdtly thqvacvenw pskkdrllft tsflllqfv plgfillcyl kiviclrrrn akvdkkne grlnenkrin tmlisivtf gacwlpriess msslgtimrc cattcccacc cttccttctt taataagcag gacgaaaaa gacaaattcc aaagaggatt A gttcagttca agggaatgaa gaattcagaa taatttttgt aaattgattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccccag cttctggcct ttgaaaaatga tgattgtcat ctgcccttgg ccattgatatt taccttagct cttgcttag gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atctgaaac aaaggagat gagaaatgtt accaacatcc tgattgtgaa ctttccctc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttgtgaggc gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaa taatagacat gcttatgtag gtattgtgt gatttgggtc cttgctgtgg cttctcttt gcctttctg atctaccaag taatgactga tgagccgttc caaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgtctta taccactctc ccttgggtgc tgcagtattt tgggtccactt tgttttatat ttatttgcta cttcaagata tatatacgcc taataaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaac ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgcagtc tgcgtgctcc cctttaccat ctttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaaactact tatagcctat ggccccgat gacatctgtt taataacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatggggttg aaatcatttg aaatgacta agattttctt gtcttgcttt ttactgcttt tgttgtagtt gtcataatta catttggaa aaaaagtgtg ggctttgggg tcttctggaa atagtittga ccagacatct ttgaagtgtc ttttgtgaat ttatgcatat aatataaaga cttttatact gtacttattg gaatgaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccattccaata cggtcattag attgggtcat cttgattaga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcatcattt tagtgtgtta caatagtaac agtatgcaa agcagcattc aggagccgaa agatagtctt gaagtcattc agaagtgggt tgaggtttct gtttttttgt ggttttttgt tgtttttttt tttttcacc ttaaggggagg ctttcatttc ctcccagact attgtcactt aaatcaaat </p> | Homo sapiens |
| 377 | 9421 | Neuropeptide Y Receptor Type 1 | nm_000909 | <p> caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tgttcacaga tacttttatt caatggaata tctacaaaag ttatgactaa tgatagcct agtaaaaaca ctgtataacc tccttagcac tgagaat mevslnhpas nttstknms affyfesccp pspallllci aytvvlivgl fgnsliliii P fkkrkaqnf tsilianisl sdtlvcvnci hftliytimd hwifgdmcr ltsyqvsvsi svsifslvft averyqlivn prgwksvth aywgitiwl fslllsipff lsyhltdpf rnslpdtly thqvacvenw pskkdrllft tsflllqfv plgfillcyl kiviclrrrn akvdkkne grlnenkrin tmlisivtf gacwlpriess msslgtimrc cattcccacc cttccttctt taataagcag gacgaaaaa gacaaattcc aaagaggatt A gttcagttca agggaatgaa gaattcagaa taatttttgt aaattgattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccccag cttctggcct ttgaaaaatga tgattgtcat ctgcccttgg ccattgatatt taccttagct cttgcttag gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atctgaaac aaaggagat gagaaatgtt accaacatcc tgattgtgaa ctttccctc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttgtgaggc gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaa taatagacat gcttatgtag gtattgtgt gatttgggtc cttgctgtgg cttctcttt gcctttctg atctaccaag taatgactga tgagccgttc caaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgtctta taccactctc ccttgggtgc tgcagtattt tgggtccactt tgttttatat ttatttgcta cttcaagata tatatacgcc taataaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaac ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgcagtc tgcgtgctcc cctttaccat ctttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaaactact tatagcctat ggccccgat gacatctgtt taataacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatggggttg aaatcatttg aaatgacta agattttctt gtcttgcttt ttactgcttt tgttgtagtt gtcataatta catttggaa aaaaagtgtg ggctttgggg tcttctggaa atagtittga ccagacatct ttgaagtgtc ttttgtgaat ttatgcatat aatataaaga cttttatact gtacttattg gaatgaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccattccaata cggtcattag attgggtcat cttgattaga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcatcattt tagtgtgtta caatagtaac agtatgcaa agcagcattc aggagccgaa agatagtctt gaagtcattc agaagtgggt tgaggtttct gtttttttgt ggttttttgt tgtttttttt tttttcacc ttaaggggagg ctttcatttc ctcccagact attgtcactt aaatcaaat </p> | Homo sapiens |

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|-----|------|---|-------------|---|--------------|
| 378 | 9421 | Neuropeptide Y Receptor Type 1 | NP_000900.1 | <p> ttaaaaaatga ataaaaagac atactttctca gctgcaaatata ttatggagaa ttgggcacccc acaggaatga agagagaaaag cagctcccca acttcaaac cattttggtta cctgacaaca agagcatttt agagtaatta attaataaa gtaaatagat attgctgcaa atagctaaat tatattttatt tgaattgatg gtcaagagat ttccatttt ttacagac tttcagtgat ttgtcaagct tctggtctaa tatgtactcg aaagactttc cgttacaat ttgtagaaa acaaatatcg ttttccatag agcagtgctt atatagtgac tgattttaac ttcaaatgct catctttcaa aggaagtac accaaggtac aatgttaag gaatttcac tttaacatgac agggaaaaat acacaaaaac tgcagatact tcatatagcc catttaact tgtataaact gtgtgacttg tggcgtctta taaataatgc actgtaaga ttactgaata gttgtgtcat gttaatgtgc ctaatttcac gtatcttgta atcatgattg agcctcagaa tcatttggag aaactatatt ttaagaagaca agacatactt caatgattta tacagataaa gtattacatg tgtttgattt taaaagggcg gacattttat taaaatcaat attgtttttg ctttttctga ggagtctctt tcagtttcat tttttctcat cccatgactt cctccgatg gt MNSTLFSQVE NHSVHSNFSE KNAQLAFEN DDCHLPLAMI FTLLALAYGAV IILGVSGNLA P LIIILKQKE MRNVNIIIV NLSFSLIVA IMCLPTEFVY TLMDFWVGE AMCKLNPFVQ CVSITVSIFS LVLI AVERHQ LIINPRGWRP NNRHAYVGIA VIWVLAVASS LPFLIYQVMT DEPFQNVTL D AYKDKYVCFD QFPDSHRLS YTTLLLVLYQ FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYRSSETKR INIMLSIVV AFAVCWLP LT IFNTVFDDNH QIIATCNHNL LFLLCHLTAM ISTCVNPIFY GFNLKNFQRD LQFFNFCD F RSRDDDYETI AMSTMHTDVS KTSLKQASPV AFKKINND D NEKI agccgagcga gcccgaggat gggagggcac ccgcagactcc gctcgtctca ggccttctc A cttctggggc tgaacccgt cctctgctcc ctcaggacc agcactgcga gacctgtctc ctggccagca acatctcaga caatggctac cgggagtgc tggccaatgg cagctgggccc gcccggtga attactccga gtgccaggag atcctcaatg agagaaaaa aagcaagggtg cactaccatg tcgcagtcac catcaactac ctgggccact gtatctccct ggtggccctc ctggtggcct ttgtctctt tctgcggtc aggagcatcc ggtgcctgcg aaacatcatc cactggaaac tcatctccgc cttcatctcg gcgaacgcca cctggttctg ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcaggttgggt gacagccgcc tacaactact tccatgtgac caactcttc tggatgttcg gcgagggtg ctacctgcac acagccatcg tgctcaccta ctcactgac cgggtgcgca aatggatgtt catctgcat ggctggggtg tgcccttccc catcatttg gcttgggcca ttgggaagct gtactacgac aatgagaagt gctggttttg caaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctctgct gatcaatttc atctctctt tcaacatcgt ccgcatcctc atgaccaagc tccgggcac caccacgtct gagaccatc agtacaggaa ggctgtgaaa gccactctgg tgbtgbtgc cctcctgggc atcacctaca tgcgttctt cgtcaatccc ggggaggatg aggtctcccg ggtcgtcttc atctactca actccttctt ggaatccttc caggctctct ttgtgtctgt gttctactgt ttctactca gtgagggtccg ttctgacctc cgggaagggt ggaacgggtg gcaggacaag cactcgatcc gtgcccaggt ggcccgtgccc atgtccatcc ccactcccc aaccctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p> | Homo sapiens |
| 379 | 9834 | Corticotropin releasing factor Receptor 1 | NM_004382 | <p> agccgagcga gcccgaggat gggagggcac ccgcagactcc gctcgtctca ggccttctc A cttctggggc tgaacccgt cctctgctcc ctcaggacc agcactgcga gacctgtctc ctggccagca acatctcaga caatggctac cgggagtgc tggccaatgg cagctgggccc gcccggtga attactccga gtgccaggag atcctcaatg agagaaaaa aagcaagggtg cactaccatg tcgcagtcac catcaactac ctgggccact gtatctccct ggtggccctc ctggtggcct ttgtctctt tctgcggtc aggagcatcc ggtgcctgcg aaacatcatc cactggaaac tcatctccgc cttcatctcg gcgaacgcca cctggttctg ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcaggttgggt gacagccgcc tacaactact tccatgtgac caactcttc tggatgttcg gcgagggtg ctacctgcac acagccatcg tgctcaccta ctcactgac cgggtgcgca aatggatgtt catctgcat ggctggggtg tgcccttccc catcatttg gcttgggcca ttgggaagct gtactacgac aatgagaagt gctggttttg caaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctctgct gatcaatttc atctctctt tcaacatcgt ccgcatcctc atgaccaagc tccgggcac caccacgtct gagaccatc agtacaggaa ggctgtgaaa gccactctgg tgbtgbtgc cctcctgggc atcacctaca tgcgttctt cgtcaatccc ggggaggatg aggtctcccg ggtcgtcttc atctactca actccttctt ggaatccttc caggctctct ttgtgtctgt gttctactgt ttctactca gtgagggtccg ttctgacctc cgggaagggt ggaacgggtg gcaggacaag cactcgatcc gtgcccaggt ggcccgtgccc atgtccatcc ccactcccc aaccctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p> | Homo sapiens |

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|-----|-------|---|-------------|--|--------------|
| 380 | 9834 | Corticotropin releasing factor Receptor 1 | NP_004373.1 | MGHPQLRLV KALLLLGLNP VSASLDQHC ESLSLASNIS DNGYRECLAN GSWAARVNYS P EQEILNEEK KSKVHYHVAV IINYLGHGIS LVALLVAFVL FLRLRSIRCL RNIIHWNLIS AFILRNATWF VVQLTMSPEV HQSNVGMWRL VTAANYFHV TNFFWMFEGE CYLHTAIVLT YSTDRLRKWM FICIGWGVFF PIIVAWAIGK LYYDNEKWF GKRPGVYTDY IYQGPMLVL LINEIFLENI VRILMTKLRA STTSETIQYR KAVKATILVL PLLGITYMLF FVNPGEDEV RVVFIYFNSF LESFQGFVS VFYCFNLSEV RSAIRKRWRH WQDKHSIRAR VARAMSIPTS PTRVSFHSIK QSTAV | Homo sapiens |
| 381 | 10457 | Frizzled-2 | NM_001466 | CGAGTAAAGT ttgcaaaag ggcgcggagg cggcagccgc agcaggagg cggcggggaa A gaagcgagtt ctccgggttg ggggcggggg cggggggggc gccaaaggag cgggtggggg gcggcgccca gcatgcggcc ccgcagcgc ctgccccgc tgctgtgc gctgtgtg ctgccccgc cgggcccgc ccagttccac ggggagaagg gcatctccat cccggaccac ggcttctgcc agcccatctc catcccgctg tgcacggaca tgcctacaa ccagaccatc atgcccaccc ttctgggcca cagaaaccag gagacgcag gcctagaggt gcaccagttc tatccgctgg tgaagtgca gtgctgcgc gaactgcgt tcttctgtg ctccatgtac gcaccgtgt gcaaccgtgt ggaacaggcc atccgcgct gccgctctat ctgtgagcgc ggcgccagg gctgcgaag cctcatgaac aagttcggt ttcagtggcc cgagcgctg cgtgcgagc acttcccgc ccacggcgc gagcagatct gcgtcggcca gaaccactcc gaggacggag ctcccgcgt actaccacc gcgcgcgc cgggactgca gccgggtgccc gggggcacc cgggtggccc gggcggggc ggcgctccc ccgcgtacc cagctggag cacccttcc actgcccgc gctcctcaag gtgccatct atctcagcta caagtctctg ggcagcgtg attgtgctg gccctgcga cctgcgcgc cgtatgggt catgttcttc tcacaggagg agacgcgtt cgcgccctc tggatcctca cctggtcgt gctgtgctgc gcttccacct tctcactgt caccacgtac ttggtagaca tgcagcgtt ccgctaccca gagcggccta tcatcttct gtccggctgc tacaccatgg tgtcgggtgc ctacatcgc ggcttcgtgc tccaggagcg cgtggtgtgc aacgagcgt tctccaggga cggttaccgc acggtgtgc agggcaccac cagctccat ctggtgggt atcctgtgc tccactggt cctggcagcc ttcagcatgg ccagctccat ggccatcaga gccaatctc agtacttcca cctggccgc tgggccgtgc cggccgtcaa gccatcacc atcctggcca tgggccagat cgaaggcgac ctgctgagcg ggtgtgctt cgtaggcctc aacagcctgg acccgctgc gggcttcgtg ctagcgcgc tcttcgtga cctgttcatc ggcacgtct tctcctggc cggcttcgtg tgcctcttc gcacccgcac catcatgaag cagcagcga ccaagaccga aaagtggag cggctcatgg tgcgcatcg cgtcttctc cgcgagcact gggagcgtc gtgggtgagc atcgctgtct acttctacga gcaggccttc cgcgagcact ggtgcccgc caccatcgtc cagcactgca agagcctgc catcccgtgc ccggcgact acacgcgcg catgtcgccc gacttcacgg ttacatgat caaatactc caatgctca tctgtggcat cagctcgggc ttctggatct ggtcgggcaa gacgtgcac tctgtgagga agttctacac tcgcctcacc aacagccgac acggtgagac caccgtgta gggacgccc caggccggaa ccgcgcggcg cttctctccg ccggtgggtg ggccttaca gactccgtat tttattttt taaataaaaa acgacgaaa ccaatttcact tttaggttg tttttaaaag agaactctct gcccaacacc ccc | Homo sapiens |

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|-----|-------|---|-------------|---|--|---|--|--|---|--------------|
| 382 | 10457 | Frizzled-2 | NP_001457.1 | MRPRSLPRL LGHTNQEDAG CEALMNKFGF GGPGGGGAPP TFEARIMILT QERVVCNERF GHEAIEANSQ FVYLFIGTSF FYEQAFREHW SGKTLHSWRK | LLPLLILLPAA LEVHQFYPLV QWPERLRCEH RYATLEHPFH WSVLCCASTF SEDGYRTVVQ YFHIAAWAVP LLAGFVSLFR ERSWVSQHCK FYTRLNSRH | GPAQFHGEKG KVQCSPELRF FPRHGAEQIC CPRVLKVPSY FTVTYLVDM GTRKEGCTIL AVKTTITLAM IRTIMKHDGT KTEKLERLMV TPRMSPDFTV | ISIPDHGFCQ FLCSMYAPVC VQGNHSEDGA LSYKFLGERD QRFERYPERFI FMMLYFFSMA QOIDGDLISG VCFVGLNSLD RIGVFSVLYT YMIKYLMTLI | PISIPLCTDI TVLEQAIPPC PALITTAPP CAAPCEPARP IFLSGCTYMW SIIWWVILSL TWFLAAGMKW PLRGFVLAPL VPATIVIACY VGITSGFWIW | Homo sapiens | |
| 383 | 11968 | Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20) | NM_022571 | atggccttac acttctctcag gggaacctga ggcgggtccg ggcgccgcgc atcttctcgc cagctccgca ggctgctct cctgcgtgc tgcttcggca cgtcggccgc tggtcgacgg gcggcggccc ggcgggcccc tgcttctgcc gtgaacacct tcatacatga | tgggcagcca cgccacaggc gcgacgcaag ggcagcgcgc tgctgtcgca tgtctagcct cgctcaccaa ccctgcccgc ccgcggggcc tcgtgtacgc cgcgggagaa ccctgggctt agagcttcca tcagcgtggg actaccacat acgcgcgcgt | gcactccggc ggcctgtctc ggcagcgccg ggaggcgggg cggagctgca tggcaactgc ggccttcatc cgcttctctg ctggcgccgc tcagcgtggc gatcgccgc ctccttgccc cggctgcctc gctggtggg gctggtggg ctgcaagacg gctgcgttct | ggcgcggccc ccgtgcgcac ctccccggcg ggcgcggtga gtggcgcccc gggtgatgg ctgtcgtgtg gaccttcca ttctgcggcg tgctcatctc cgccgcgcgc tggtgagctc taccggacct cctgtgtacc gtgcgcctgt tcagcgaggt | acctggcggg cgcgcgcgtg ctccccgttg ggcgcggtga aggcgctcgt gggtgattgt tctgtctcag ctccgcccgg caagccgctt ttggaccgtt tgcagctgct ggcgggcgcc tggggagctc ccccggacct tgctgcccc cggacgtgcg ggcgcgccg | Homo sapiens | |
| 384 | 11968 | Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20) | NP_072093.1 | MALLGSQHS GGSGAAREAG QLRTVTNAFI CFGIVYAQRG AAGQSFHGCL VNTYARVLRS | APSAAGPPGG AAVRRRLGPE LSLSLSDLLT AHLVGPLLRY YRTSPDPAQL SARCARPPPS | TSSAATAAVAL AAPLLSHGAA ALLCLPAEFL RRPREKIGR GGPFSVGLV SARCARPPPS | SFSTVATAAL VAAQALVLLI DLFTPPGSSA RRALQLLAGA ACVLLPFLLI | GNLSDASGGG IFLLSSLGNC PALPAGPWRG WLTALGFSLP CFCHYHICKT | TAAAPGGGGL AVMGVIVKHR FCRPSRFFSS WELLGAPREL VRLSDVRVRP | Homo sapiens |
| 385 | 14198 | Interleukin-8 Receptor B | nm_001557 | cattccagaga aagccatcag acctgtcctg caggagggga gtttcatctt aagacatcgg caggtgaaaa | cagaaggtgg acaggaagat ggccaaagtc tctctggattt tttttctcctg tggccactcc gcccagcgac | atagacaaat gtgaaaaatc ccaggacaga cccccttgca tctaacagct ataaacagca ccaagtccagga | ctccaccttc ccagcactca ctcatattgt accttggtga ctgactacca ggtcacagct tttaagtta | agactggtag tcccagaatc cctctgtggg gaagtgtcat cccaaccttg ggtcacagtg agggtgtccta ggaagatttt | gctcctccag actaagtggc aatacctccc cgtcaaggtt aggcacagtg agggtgtccta ggaagatttt | Homo sapiens |

aacatggaga gtgacagctt tgaagatttc tggaagggtg aagatcttag taattacagt
tacagctcta ccctgcccc ttttctacta gatgcggccc catgtgaacc agaaccctg
gaaatcaaca agtatattgt ggtcattatc tatgccttgg tattcctgt gagcctgtg
ggaactccc tcgtgatgt ggtcatctta tacagaaggg tcggccgtc cgtcactgat
gtctacctgc tgaacctagc ctggccgac ctactctttg ccctgacctt gccatctgg
gccgcctcca agtgaaatgg ctggattttt ggcacattcc tgtgcaaggt ggtctcactc
ctgaagggaag tcaacttcta tagtggcatc ctgactctgg ccctgcatcag tgtggaccgt
tacctggcca ttgtccatgc cacacgcaca ctgacccaga agcgtactt ggtcaaatc
atatgtctca gcactgggg tctgtccttg ctccctggccc tgcctgtctt actttccga
aggaccgtct actcatccaa tgttagccca gctgctatg aggacatgg caacaatca
gaaaactggc ggatgctgtt acggatcctg cccagtcct ttggttcat cgtgccactg
ctgatcatgc tgttctgcta cggattcacc ctgctacgc tgtttaaggc ccacatgggg
cagaagcacc gggccatgcg ggtcatcttt gctgtcgtcc tcacttctt gctctgctgg
ctgccctaca acctgttctt gctggcagc acctcatga ggacccaggt gatccaggag
acctgtgagc gccgcaatca catcgaccgg gctctggatg ccaccagat tctgggcac
cttcacagct gcctcaacc cctcatctac gccttcattg gccagaaagt tcgccatgga
ctcctcaaga ttctagctat acatggcttg atcagcaagg actccctgcc caagacagc
aggccttctt ttgttgctc ttcttcaggg cacacttcca ctactctta agacctctg
cctaagtca gccgtgggg ttctccctt ctcttcacag tcacattcca agcctcatgt
ccactggtc ttcttggtct cagtgtcaat gcagcccca ttgtggtcac aggaagtaga
ggaggccacg ttcttactag ttcccttgc atggtttaga aagcttggcc tgggtgctca
cccttgcca taattactat gtcatttctt gtagctctgc ccactcctcc cctgagccca
tggcactcta tgttctaaga agtgaanaac tacactccag tgagacagct ctgcatactc
attagatgg ctagtatcaa aagaagaaa atcaggctgg ccaacggggt gaaacctgtc
tctactaaa atacaaaaa aaaaaaaat tagccggcg tgggtgtgag tgcctgtaat
cacagctact tgggaggctg agatgggaga atcacttgaa cccgggagca gaggttgca
tgagccgaga ttgtgccct gccatccagc ctgagcgaca gtgagactct gtctcagtcc
atgaagatgt agaggagaaa ctggaactct cgagcgttgc tgggggggat tgtaaaatgg
tgtgaccact gcagaagaca gtatggcagc ttctctcaaa acttcagaca tagaattaac
acatgatcct gcaattccac ttataggaat tgaccacaaa gaaatgaaa cagggacttg
aacccatatt tgtacaccaa tattcatagc agcttattca caagacccaa aaggcagaag
caacccaaat gttcatcaat gaatgaatga atggctaagc aaaaatgtgat atgtaccta
cgaagtatcc ttcagcctga aagaggaatg aagtaactcat acatgttaca acacggacga
accttgaana ctttatgcta agtgaataa gccagacatc aacagataaa tagttatga
ttccacctac atgaggtact gagagtgaac aaatttaccag agacagaaa cagaacagt
attaccaggg actgagggga ggggagcatg ggaattgacg gtttaattgg cacagggtt
atgtttagga tgttgaanaa gttctgcaga taaacagtag tgatagttgt accgcaatgt
gacttaatgc cactaaattg acacttaaaa atggtttaaa tggtaaat ttttatgtat
atbtatatc aatttaaaa aaacctgag ccccaagg tattttaac accaaggctg
attaaccaa ggctagaacc acctgcctat atttttgtt aaatgatttc attcaatatac
tttttttaa taaaccattt ttacttgggt gttat

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|-----|-------|------------------------------|-------------|---|--|--|--|--|--|-----------------|
| 386 | 14198 | Interleukin- 8 Receptor B | NP_001548.1 | MEDFNMSDS LSLLGNSLVM VVSLLKEVNF LLFRRTVYSS AHMQKHRAH ILGILHSLN | FEDEFWKGEDL LVILYSRVGR YSGILLIACI NVSPACYEDM RVIFAVVLIF PLIYAFIGQK | SNYSYSTLP SVTDVYLLNL IVDRYLAIVH GNNTANWRML LLCWLPLYNLV FRHGLLKILA | PFLDDAAPCE ALADLLFALT ATRTLQKRY LRILPQSGF LLADTLMRTQ IHGLISKDSL | PESLEINKYF LPIWAASKVN IVKFLICSIW IVPLLLMFC VIQETCERN PKDSRPSFVG | VWIIYALVFL GWIFGTFICK GLSLLIALPV YGFLLRTLFK HIDRALDATE SSSGHTSTTL | Homo sapiens |
| 387 | 14641 | Calcitonin Receptor | NM_001742 | | cagaattcca gtgcttgcca tcaaacctat gatggatgca aggtcccatat agtattgtcc tacaaaaatc gtcccaactat gtactatttg gattttcgtg tcttactttac tggagagctc catgatggcc tgtcgtggct gttcccgtcg ctgctcgctg acttgtggtc ggaaacccat tgtgccccctg tgggaagata gaccatctac attcaaaaatt tgcagccgct gaatgaacca agagcaagag catttccctgg tatcatttgt ttggtactgt tccatcatcc aaaaacaatg tataccctttg ttagattattt ttctgatgtt ctctgcaaga tgcatttggc | ggacaaaagag ctgtttcttc ccaacaatag cagtaacaat tgcaatcgca tatcagttct tgtgatgaaa actatgtgca gctattgtgg tttttcagga attctgaatt gtgcgaagg tgcaactatt gtgtttactg gtgccaacca ctatccatgc cccattgtct tttgcctcaa cccacatgta agtttgtcgt tgatgcactc acaatgaggt cagtggaacc gtgcgagag gccaacaacc tcattctgct gagaaagacc gaagaattat tgccttggga gacagtctag gagatgcaaa agttgacct aatattgacct aatattaaa atcactgtca gtctatgtg gtctatgtt tttaccatcc ttctaataga aggaagatgt | agccttcata tctctaaatca agcccaagcc gctatgaccc cctgggatgg gccagattta aaggtgtttg atgctttcac gtcattcttt gccctggctg ctatgattat accctgtgag tctggatgct agaagcaacg ctattccatgc ccatttgtct tttgcctcaa cccacatgta agtttgtcgt tgatgcactc acaatgaggt cagtggaacc gtgcgagag gccaacaacc tcattctgct gagaaagacc gaagaattat tgccttggga gacagtctag gagatgcaaa agttgacct aatattgacct aatattaaa atcactgtca gtctatgtg gtctatgtt tttaccatcc ttctaataga aggaagatgt | atcttcataa cccaacccca atctctttac atgcacccag atggctgtgc ttttccggat gtttaaacat tcctgagaaa gtcattcttt ccaagggta catcatccac ctgcaaggat ctgtgaagg cttgcggctg tattaccagg tattaccatc catgtcccg ctgtcttgta gtgaaggcca agaccttcca ttccagggtc gtgaagcgcc tccaacccgc atctgccatc atcatccctt catcgtgatc atctctccag aaactgtaatc tcccactgca atgcaagcaa agttatcaaa cttgtcaata ttttaactct tttttttaa tttttttaa aacacatga aatatgtgaa attagagtc | ttacaaagccg attcttctg gtcgtaggac ttaccgcac tgggatgaca caccggctgg cagaaaaagt atcgaaacctg catatgttct tttccctggg accctagtag agacatgtt ctggttgaag tagtacccaa ttgcattttt atcacactat tgggctgggg gcctgtgact tcaatgacaa tcatggcggc cctgaatgag cctgaatgag ccaatgacct acaagatgct tctttgttgc aatgggccc ctgctcgcgc aggagctgag tgaatatcat actgagccat gaaccgaaca aaagtatttc acttgtgaac agttatcaaa atgcaagcaa cttgtcaata ctgagccatt ggattttgaa tttcagtcga actacgtgac gaaaaagacc aatttgcgtg | Homo sapiens |

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|-----|-------|--------------------------------|-------------|--|--------------|
| 388 | 14641 | Calcitonin Receptor | NP_001733.1 | <p> aaacattaca tgctcagctt ggttttggac aagcctgttc atttggcagg acctagtgt tgtaagaat tggctttaat gttgaatgta ttttgggtgc tgatgtttt aaactgagag gtcacaaga atctatcact aaaaattttt acaaaactgc caaaaatata attcttagtg gaagacaata ctccctttaa agagagtgtt ccactccct aaactccagg atttataaag caaattactc caaggtttat aaagcagatt acctctgccc ctgtgggtgct atctagcagt aaaagataaa ttgttgtaatt attggttaatt aaaagactcc acataagtcc ataaactgct ttccaccag cttcaaaagt taaaaagagc tcaggctttt ccaggaaagt ccaggagggc taattagaaa tcaacttgtg gttgaccgct tgtttcttgt tattaccaaa caggagggga aaaaattaac tgcctccaaat ttaaccataa atcaattcat gtttaacgtt tctcattaaa atccagttat atattatcat atctctctt acttccagc ataagatttt tgaatatcct gaataaacca gtatcgttac tggcactga aattaatttg tgaatttgca acagtaatca gagttaccat tatttaattt gtatgctaaa tgaggagga cattgaaacc ctccaaatct ccagctcat ctatgtcata ttttgccact gcttttcaga agtgatttag ttgtggaaaag ataataaatt gatttgttat ggttacatat ttagcgcacc cagagaaaaa taattatatt tctacagaga aatgaattt gggatactaa agtagtttaa gtctccttta ctgaatgtaa gggggggac gaaaagaagg tatttttcca atcacagtg tatgtagtat tgttctattt ttgtttacaa acatggaaaa cagagtattt ctggcagctg tggtaacaa gtgataatat attgctaaaa tattttagat gttattatgc taatatagta ggggttggaag aaaaacaaat agcttattat agaattgcac atagtctgc ccaaatatg tgaatgctt atgcttgtgt atatgtataa attaatcacag agtagcttaa aagcaaaaaa atgtatatatt gcatattttt ctaaagaaat atattattca tcttttcat c </p> | Homo sapiens |
| 389 | 16041 | C-C Chemokine Receptor 6 | NM_004367 | <p> QLPAYQEGP YCNRTWDGWL CWDDTPAGVL SYQFCPDYFP DFDPEKVTK YCDEKGVWEK HPENRTWSN YTMCAFTPE KLNAYVLY LAIVGHSLSI FTLVISLGF VFRSLGCQR VTLHKMFLT YILNSMIII HLVEVPNGE LVRRDPVSK ILHFFHQYMM ACNYFWMLCE GIYLHTLIV AVFTEKQRLR WYLLGWGFP LVPTIHAIT RAVYENDNCW LSVETHLLYI IHGPVMAALV VNEFFLLNIV RVLVTKMRET HEAESHYMK AVKATMILVP LLGIQFVFP WRPSNKMGLK IYDYVMHSLI HFQFFVATI YFCNNEVQT TVKRQWAQFK IQWNQRWGRR PSNRSARAAA AAAGADIPY YICHOELRNE PANNOGEESA EIIPLNIIIEQ ESSA caaacgttcc caaatcttcc cagtcggctt gcagagactc ctgtctccc ggagataacc A agaagctgca tcttattgac agatggtcat cacattgggt agctggagtc atcagattgt ggggcccgga gtgagctga agggagtga tcagagcact gcctgagagt cacctctact ttctgtctac cgctgctgt gactgaaag gctgaacca tacactcctt tttctacaa cagcttgcat ttttctgcc cacaatgac ggggaatcaa tgaatttcag cgatgttttc gactccagt aagattattt tgtgtcagtc aatactcat attactcagt tgattctgag atgttactgt gctccttgca ggaggtcagg cagttctcca ggctatttgt accgattgcc tactccttga tctgtgtctt tggcctcctg gggaatttc tgggtgtgat cacctttgct ttttataaga agccaggctc tatgacagac gtctatctct tgaacatggc cattgcagac atcctctttg ttcttactct cccattctgg gcagttagtc atgccactgg tgcgtgggtt ttcagcaatg ccacgtgcaa gttgctaaaa ggcattctat ccatcaactt taactgcggg atgctgctcc tgacttgcat tagcatggac cgggtacatcg ccattgtaca ggcgactaag </p> | Homo sapiens |

tcattccggc tccgatccag aacactaacc cgcacgaaaa tcactgcct tgttgtgtgg
gggtgtcag tcatcatctc cagctcaact tttgtcttca accaaaaa caaccccaa
ggcagcagc tctgtgaac caagtaccag actgtctcgg agcccatcag gtggaagctg
ctgatgttg ggcttgagct actcttgggt tctcttatcc ctttgatgtt catgatattt
tgttacagt tcattgtcaa aaccttgggt caagctcaga attctaaaag gcacaaagcc
atccgtgtaa tcatagctgt ggtgcttgtg aaattbgggt gacctgcga gagcgaagaag
gtcctgcttg tgacggctgc aaattbgggt gacctgcga gatcctgcca gagcgaagaag
ctaattggct atacgaaaaac tgcacagaa gtcctggctt tctgacctg ctgctgaac
cctgtgctct acgcttttat tgggcagaag ttcagaaaaact acttctgaa gatcttgaag
gacctgtggt gtgtgagaag gaagtacaag tctcaggct tctcctgtgc cgggaggtac
tcagaaaaa tttctcggca gaccagtga accagagata acgacaatgc gtctccttc
actatgtgat agaaagctga gtctccctaa ggcagtgtgt aacatactc atagatgtta
tgcaaaaaa agtctatggc caggtatgca tggaaaatgt gggaaattaag caaaatcaag
caagcctctc tctgcggga cttaacgtgc tcatgggctg tctgctctct tcagggtggg
gtggtctctg ataggttagca ttttccagca ctttgcagg aatgttttgt agctctaggg
tatatactcg cctggcattt cacaacacag ctttgggaa atgtctgaatt aaagtgaatt
gttgacaaat gtaaacattt tcagaaatat tcatgaagcg gtacagatc acagtgtctt
ttggttacag cacaacatga tggcagtgggt ttgaaaaact aaaaacagaa aaaaatgga
agcaaacaca tcaactattt taggcaaatg tttaaacatt tttatctatc agaattgtta
ttgttgctgg ttataagcag caggattggc cggctagtgt tctctctcat tctccttga
tacagtcaac aagcctgacc ctgtaaaaatg gagtggaaa gacaagctca agtgttcaca
accaatgga tcttcggaa gaaggggaca atggcagaac aggtgttgtt gacaattgtc
gattccctg gtagctgttc tctgtcgtga tctctcttg tgaacctgc ggtttgctt
agagtgtct gaagacagga tctagaataa tcttgcctac agctgtgctc tgagtgccta
gcggagtcc agcaacaaa atggactcaa gagagatttg attaatgaat cgtaaatgaag
ttgggggtta ttgtacagtt taaaatgtta gatgtttta attttttaa taaatggaat
acttttttt tttttaaaga aagcaacttt actgagacaa tgtagaaaag agttttgttc
cgtttcttta atgtgtgtga agagcaatgt gtggctgaag acttttgtta tgaggagctg
cagattagct aggggacagc tggaaattatg ctggcttctg ataattattt taaaggggtc
tgaatttgt gatggaatca gattttaaca gctctcttca atgacataga aagttcatgg
aactcatgtt tttaaagggc tatgtaaaata tatgaacatt agaaaaatag caacttgtt
tacaacaaata caaacacatg ttaggaaggt actgtcatg gtaggcctg gtggtcaca
cctgtaatcc cagcattttg ggaagctaag atgggtggat cacttgaggt caggagttt
agaccagcct ggcaacatg gcaaacccc tctctactaa aaatacaaaa atttgccagg
cgtgtgtggc ggtgctgta atccagcta cttgggagcc agatcgtgcc attgacctc agcctgggt
aacccaggag gcagaggttg cagtgaagcc agatcgtgcc attgacctc agcctgggt
acagagcgag actccatctc aaaaaaaa aaaaaaaa ctccatctca aaaaaaaa
aaaaaaaa aggaagaagc tgtcatgtta acataccgac atgtttaac ctgacaatgg
tgttatgtga aacttatat tgttcttga agctttaact atatctctct ttaaatgca
aaataatgtc ttaagattca aagtctgtat ttttaagca tggctttggc tttgcaaat

| | | | | | | |
|-----|-------|------------|-------------------------|-------------|--|-----------------|
| 390 | 16041 | C-C | Chemokine Receptor 6 | NP_004358.1 | <p> aaaaaatgtg tttgtacat gaagtaggaa tcgtatttca gtttcaaggt tcagattgag gggccactg tttggagagg atggtattca ggctttctca tgccttcaa atctgttagc gttgactct agaaatcaaa gcaaaggagt ggttaccag acactcttt tgggtgtgac aatgcgtga tgtgatctat gaagatgatt catgcttgaa aactagcaca gaaacatctt gcttatttgc caaagctggg agatgagctt ctctgcataa tttaaatgtt cagataaatg aagctgactt atttaagcaa taacctttta aacattttag ctaagatgta taaaaatgtt tccaaaatat accacatact ttattttctc ttaaatgtag tacattaggt tacatcatt ttcttgctgt cttgggcatc aaaacaggtg ccattgtaac ctgacactct caggagacat taagatagaa ggggctgtc ttcagtgtt cccattgatt ctcccatat cttttgtctc tcaggctctg gccgtctct cctgagcctt aactgtg LLGNILVIT FAFYKKARM TDVLLNMAI ADILFVLTLP FVAVSHATGA WVFSNATCKL LKGIYAINEN CGMLLLTCS MDYIAIVQA TKSFRLRSRT LPRTKIICLV VWGLSVIIS STFVFNQKYN TQGSDVCEPK YQTVSEPIRW KLMLGLELL FGFPIPLMEM IFCYTFIVKT LVQAQNSKRH KAIRVIAV LVFLACQIPH NMVLLVTAAN LGKMRSCQS EKLIGYTKTV TEVLAFTHCC LNPVLYAFIG QKFRNYFLKI LKDLWCVRK YKSSGFSCAG RYSENISRQT SETADNDNAS SFTM </p> | Homo sapiens |
| 391 | 16599 | Smoothened | | NM_005631 | <p> atggcgcgtg cccgccagc gcggggggcg gagctccgc tcctggggt gctgctgtg A ctgctgtg gggaccggg cggggggcg gcctgagcg ggaacgcgac cgggctggg cctcgagcg cggcggggag cgcgagagg agcgcggcg gactggccc tccgcgcgc ctgagccact gcggcggcg tgcctctgc gagcgtgc gctacaacgt gtgctggcg tcggtgctgc cctacggggc cactccaca ctgctggcg gagactgga ctccaggag gaagcgacg gcaagctcgt gctctgctg ggcctccgga atgcccccg ctgctggga gtgatccagc cctgctgtg tgccgtatc atgccaaagt gtgagaatga cgggtggag ctgcccagc gtaccctctg ccaggccac caggccctt gtgcatcgt ggagaggag cgggctggc ctgacttct gcgctgact cctgaccgt tccctgaagg ctgcacgaat gaggtgcaga acatcaagt caacagttca ggccagtgc aagtgcctt ggttcggaca gacaaccca agagctgga caggacgtg gagggctgc gcatccagt ccagaacccg ctcttcacag aggtgagca ccaggacatg cacagctaca tgcggcctt cggggccgtc acggccctt gcacgtctt caccctggc acattcgtg ctgactggcg gaactcgaat cgctaccctg ctgtattct ctctacgc aatgcgtgt tcttgggg cagcattggc tggctggccc agtcatgga tgggtcccg cgagagatcg tctgctgct cttgtcact atgaggcttg gggagccac ctccaatgag actctgtct cgtcatcat cttgtcact gtgtactacg cctgatggc tgggtggtt tgggttggg tctcaccta tgcctggac acttcttca aagccctgg caccactac cagctctct cgggcaagac ctctacttc cactgtctca cctggtcact cccctttgtc ctactgtg caatccttgc tgtggcgag gtggatggg actctgtgag tggcatttgt tttgtgggt acaagaacta ccgataccgt gcggtcttcg tgtggccc aatcgccctg gtgctatcg tggaggcta ctctctcatc cgaggagtca tgactctgt ctocatcaag agcaaccac cgggctgtc gagtgaag gctgccagca agatcaacga gacctgctg gcctgggca ttttggctt cctggcctt ggctttgtg tcattacctt cagctgccac ttctacgact tcttcaacca ggctgagtgg </p> | Homo sapiens |

| | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|-------------|--|
| gagcgagct | tccgggacta | tgtgctatgt | caggccaatg | tgaccatcgg | gctgcccacc | | | | |
| aagcagccca | tccctgactg | tgagatcaag | aatcgcccga | gccttctggt | ggagaagatc | | | | |
| aacctgtttg | ccatgttttg | aactggcatc | gccatgagca | cctgggtctg | gaccaaggcc | | | | |
| acgtgctca | tctggaggcg | tacctgttgc | aggttgactg | ggcagagtga | cgatgagcca | | | | |
| aagcggatca | agaagagcaa | gatgattgcc | aagccttctt | ctaagcggca | cgagtctcctg | | | | |
| cagaacccag | gccaggagct | gtccttcagc | atgcacactg | tgtcccaaga | cgggcccgtg | | | | |
| gcgggcttgg | cccttgacct | caatgagccc | tcagctgatg | tctcctctgc | ctgggcccag | | | | |
| catgtcacca | agatggtggc | tcggagagga | gccatactgc | cccagatat | tctgttcacc | | | | |
| ccctgtggcaa | ctccagtgcc | cccagaggaa | caagccaacc | tgtggtctggt | tgaggccagag | | | | |
| atctccccag | agctgcagaa | gcgcttgggc | cggaaagaaga | agaggaggaa | gaggaagaag | | | | |
| gaggtgtgcc | cgctggcgcc | gccccctgag | cttcaccccc | ctgccccctgc | cccagttacc | | | | |
| attcctcgac | tgcttcagct | gccccggcag | aaatgcctgg | tggtctgcag | tgcttgggga | | | | |
| gctggggact | cttgccgaca | gggagctggg | acctgtgtct | cccaaccatt | ctgcccagag | | | | |
| cccagtcccc | ctcaggatcc | attctgccc | agtgcaacgg | ccccgtggc | atgggtctcat | | | | |
| ggccgcgcgac | agggcctggg | gcctattcac | tccccaccca | acctgatgga | cacagaactc | | | | |
| atggatgcag | actcggaatt | ctgagcctgc | agagcaggac | ctgggacagg | aaagagagga | | | | |
| accaaatacct | tcaaggctct | tcttctcac | cgagcatgct | tccctaggat | cccgctcttc | | | | |
| agagaacctg | tggtgctgact | gcccccgaa | gagagtctg | gatgtctggc | tcaaaagcag | | | | |
| aggactgtgg | gaaagagcct | aacatctcca | tggtgagggc | tcaccccagg | gacaggggccc | | | | |
| tgagactcag | ggtccttgtt | tctgcccctgc | cagctgcagc | ctggtttggca | gcactgtgctc | | | | |
| catcggggca | gggggtatgc | agagcttgtg | gtggggcagg | aacggtggag | gcagaggtga | | | | |
| cagttcccag | agtgggcttt | gggtggcagg | gaggcagcct | agcctatgtc | tggcagatga | | | | |
| gggtcggtg | cggttttctg | ggctgatggg | tgcctcttcc | tggcagctctc | agtcctcaaa | | | | |
| tggtgactgt | gtcattagtc | ctttgtctaa | gtaggggccc | ggcacccgtat | tctcttccca | | | | |
| ggtgtttgtg | gggctggaag | gacctgctcc | cacaggggcc | atgtcctctc | ttaatatggtg | | | | |
| gcactacccc | aaacccatct | tttgttctcc | tatatcctcc | ttctcctgtt | ccatttcagt | | | | |
| tcagtttcag | cggtgcccaac | ctctttgcgt | tctctttttg | ttgatgagga | cccagagctg | | | | |
| ctgcacacac | tcacctctaa | ccccctcccc | tcgctgctgg | gccccatctc | cacagagagag | | | | |
| actggttcgg | ctctagg | | | | | | | | |
| 16599 | Smoothened | NP_005622.1 | MAAARPARGP | ELPLGLLLL | LLLGDPGRGA | ASSGNATGPG | PRSAGGSARR | SAAVTGPPPP | |
| | | | LSHCGRAAPC | EPLRYNVCLG | SVLPYGATST | LLAGDSDSQE | EAHGKLVWS | GLRNAPRCWA | |
| | | | VIQPLLCAYV | MPKCENDRVE | LPSTLCQAT | RGPCAIVERE | RGWPDFLRCT | PDRFPEGCTN | |
| | | | EVQNIKENSS | GQCEVPLVRT | DNPKSWYEDV | EGGICQONP | LFTEAEHQDM | HSYIAAFGAV | |
| | | | TGLCTILFTLA | TFVADWRNSN | RYPAVILFYV | NACFFVGSIG | WLAQFMDGAR | REIVCRADGT | |
| | | | MRLGEPTSNE | TLSCVILFVI | VYVYALMAGV | WFVLTIAWH | TSEKALGTTY | QPLSGKTSYF | |
| | | | HLITWSLIPFV | LTVAILAVAQ | VDGDSVSGIC | FVGYKNYRYR | AGFVLAPIGL | VLIIVGGYFLI | |
| | | | RGVMTLFSIK | SNHPGLLSEK | AASKINETML | RLGIFGLFAP | GFVLITFSCH | FYDFFNQAEW | |
| | | | ERSFRDYVLC | QANVTIGLPT | KQIPDCEIK | NRPSLLVEKI | NLFAMFGTGI | AMSTVWTKA | |
| | | | TLLIWRRTWC | RLTGQSDDEP | KRIKSKMIA | KAFSKRHELL | QNPQOELSFS | MHTVSHDGPV | |
| | | | AGLAFDLNEP | SADVSSAWAQ | HVTMVARRG | AILPQDISVT | PVATPVPEE | QANLWLVEAE | |
| | | | ISPELOKRLG | RKKRRKRKK | EVCPLAPPE | LHPPAPAPST | IPRLPQLPRQ | KCLVAAGANG | |

| | | | | | |
|-----|-------|--|-------------|--|-----------------|
| 393 | 17250 | G Protein- Coupled Receptor GPR45 | NM_007227 | atggcctgca acagcacgtc ccttgaggt tacacatacc tgetgctgaa caccagcaac A gcctcagact cggggtccac ccagttgcc gcaccctca gcatctcctt ggccatagtg atgctgctga tgaccgtggt ggggttccctg ggcaacactg tggctgcat catcgtgtac cagagggcgg ctagcgtctc ggccataaac ctagctggg ccaccctggc cttctccgac atcatgctgt cctctgctg catgcccttc accgcgtca cctcatcac cgtgcgtgg cactttgggg accactctg ccgcctctca gccacgctc actggttttt tgtcctggag ggcgtggcca tctgtctcat catcagcgtg gaccgttcc tcatcctgt ccagcgccag gacaagctga acccgccag ggccaagtg atcatcggg tctcctgggt gctgtccttc tgcatcgcgg ggcctcgtc caccggctgg acgtggtgg agtgccggc gcgggcccc cagtgcgtg tgggctacac ggagctccc gctgaccgg catacgtgt cacttggtg gtggcgtgt tcttcgcgc ctttggcgtc atgctgtcg cctacatgtg catcctcaac acggtccga agaacgcgt gcgctgcac aaccagtcg acagcctgga cctgcggcag ctcaccaggg cgggcctcg gcgcctgcag cggcagcaac aggtcagct gacttgagc ttcaagacca aggccttcac caccatctg atcctcttg tggccttct cctctgctg ctgcccact cgtctacag cctcctgtct gtgttagcc agcgtttta ctgcggttc tcttctacg ccaccagcac ctgcgtcctg tggttcagtt acctcaagtc cgtcttcaac cccatcgtct actgctggag aatcaaaaaa ttccgaggg cctgcataga gttgctgcc cagaccttc aaatcctccc caagtgcct gagcgatcc gaaggagaat ccagccaagc acagtatacg tgtgcaatga aaacagctc gcggttag MACNSTSLEA YTYLLNTSN ASDSGTQLP APLRISLAIV MLLMTVVGFL GNTVCIIVY P QRPAMRSAIN ILLATLAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCLRS ATLYWFFVLE GVAILLIISV DRELIIVQRQ DKLNPRAKV IIAVSWLSF CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVYVTLV VAVFFAPFGV MLCAYMCILN TVRKNVVRVH NQSDSLDLRQ LTRAGLRLQ RQQQSVDLS FKTKAFTIL ILFVGFSLCW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLSKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVVVCNENQS AV | Homo sapiens |
| 394 | 17250 | G Protein- Coupled Receptor GPR45 | NP_009158.1 | MACNSTSLEA YTYLLNTSN ASDSGTQLP APLRISLAIV MLLMTVVGFL GNTVCIIVY P QRPAMRSAIN ILLATLAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCLRS ATLYWFFVLE GVAILLIISV DRELIIVQRQ DKLNPRAKV IIAVSWLSF CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVYVTLV VAVFFAPFGV MLCAYMCILN TVRKNVVRVH NQSDSLDLRQ LTRAGLRLQ RQQQSVDLS FKTKAFTIL ILFVGFSLCW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLSKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVVVCNENQS AV | Homo sapiens |
| 395 | 17345 | G Protein- Coupled Receptor D6 | NM_001296 | ggtcttatga gctgctattg aacacggcag agcctgttg tgacctgcac acaggagccc A tccagtcagt actgattgaa ttactcaagg ctgcctctct gcaaatgta gcactacag acgtcgggac tgggcatttc cttccaacat ggcgcacact gcctctccg agccactgc cactgagat gccgattctg agaatagcag cttctattac tatgactacc tggatgaagt ggccttcagt ctctgcagga aggatgcagt ggtgtccttt ggcaaatct tctcccagt cttctatagc ctgattttt tgttggcct cagcgggaac ctctcttct tcatggtctt gtcccgttac gtgcctcgca ggcggatggt tgagatctat ctgctgaatc tggccatctc caacctctg tttctggtga cactgccct ctggggcact tccgtggcct ggcatgggt cttcgggagt tcttctgtga agatggtgag cactcttat actattaact ttacagtg catcttttc attagctgca tgagcctgga caagtacctg gagatcgttc atgctcagc ctaccacagg ctgaggaccc gggccaagag cctgctcctt gctaccatag tatgggctgt gtccctggcc gtctccatcc ctgatattgt ctttgtacag acacatgaaa atcccaagg tgtgtggaac tgccacgacg atttcggcgg gcattggacc atttgaagc tottctcog | Homo sapiens |

| Accession | Gene | Protein | Species |
|-----------|-------|---------------------|--|
| 397 | 17535 | Gaba (b) Receptor 1 | Homo sapiens |
| | | | cgctcccgcc tccccgggct gcgcgcgcc cgagggaaga gagacagggg tgggggtttg A |
| | | | gggaagcgag agagaggggg agagaccctg gccagggctgg accctgatt ccagggagaa |

| | | | | | |
|-------------|------------|------------|-------------|-------------|------------|
| cttcagag | aacctctag | ggtttctct | tccactcctt | gccatgatct | tcttctactc |
| ccgtatggt | tgtgtcttg | tgagctgag | gccgcaggc | cagggccggg | ctttaaaat |
| agctgcagcc | ttggtggtg | cttctctgt | gctatggtc | ccatacaatc | tcacttgtt |
| cttcatacg | ctgttgacc | tgcaagtatt | cgggaactgt | gaggtcagcc | agcatctaga |
| ctagcactc | agcttaacag | agacatgag | cttctctac | tgctgctttt | ccccatctc |
| gtatgcctc | tccagtacc | gcttcgcca | gtactcgaag | ctttcttgg | ctgcgctgtc |
| tggtatgac | ctggcactg | gcactgcca | ggcctcatta | tccagctgtt | ctgagcagag |
| catactact | gcccaagag | aaatgactgg | catgaatgac | cttggaagaga | ggcagctcga |
| gaactacct | aacaagagg | atgtgggaa | taaatcagcc | tgagtacca | aattttggtc |
| tggttggaac | atgdtggaac | cagctcaatt | gggtgtcac | tcaaaagtct | c |
| MAATASQPL | ATEDADSENS | SEFYDYDLE | VAFMLCKRDA | VWFGKVFLP | VFYSLIFVLG |
| LSGNLLLMV | LLRYVPRRM | VEIYLNLAI | PNHFLVTLF | FVGSIVAWHW | VFGSFLCKMV |
| STLYTINFYS | GIFFISMSL | DKYLEIVHAQ | SYHLRTRAK | SLLLATVWA | VSLAVSIPDM |
| VFVQTHENPK | GVWNHADFG | GHGTIWKLF | RFQNNLGLF | LPLLAMIFFY | SRIGCVLVR |
| RPAGQGRALK | IAAALVVAFF | VLWFPYNLT | FLHTLLDLQ | FGNCEVSQHL | DYALQVTSI |
| AFLHCFCSPI | LYAFSSHRFR | QYLKAFIAAV | LGWHLAPGTA | QASLSSCES | SILTAQEEMT |
| GMNDLGERQS | ENYPNKEDVG | NKSA | | | |
| cgctccccg | tccgttgct | gccgcggcc | cggggaagaa | gagacagggg | tg99ggttg |
| gg9gaagcgag | agagacggg | agagaccct | cgcagctgg | agcctggatt | c9agggcag |
| agggacggga | ggtggaagaa | ggtggaagg | aagggagggg | ggagcgggga | ggagcggcg |
| ggccttgggc | cttgaagccc | ggggagagcc | ggggagccgg | gccgcgcgc | cgagatggt |
| ctgctgctgt | tactggccc | actctctc | cgccccgg | gcgcggcgg | ggcgcagac |
| cccaacgcca | cctcgaag | ttgccagatc | ataccccg | cctgggaag | gggcatacgg |
| taccggggcc | tgactcggga | ccaggtgaag | gctataact | tcctgccagt | ggactatgag |
| attgagtat | tgtgcgggg | tgagcgcgag | gtgtggggc | ccaaggtccg | caagtgcctg |
| gccaacggct | ctcggacaga | tatggacaca | ccagccgct | ctgtcgaat | ctgctccaa |
| tcttatttga | cctcggaaaa | tg9gaaggtt | tctctgacgg | gtggggacct | ccgactctg |
| gacgcagccc | gggtgattt | ccggtgtgac | ccgacttcc | atctggtggg | cagctcccg |
| agcatctgt | gtcagggcca | gtggagcac | cccaagccc | actgccaggt | gaatcgaac |
| ccacactcag | aacgcgcgc | agtgfacatc | ggggcactgt | ttcccatgag | cgggggctgg |
| ccagggggcc | agcctgcca | gcccggggtg | gagatggcgc | tg9gagacgt | gaatagccgc |
| a9gggacatc | tgagctcact | tgagctcaag | ctctaccac | cgacagacaa | gtgtgatcca |
| gggccaagcca | ccaagtacct | atatgagctg | ctctacaacg | accctatcaa | gatcatcct |
| atgctctggt | gcagctctgt | ctcacgctg | gtggtgaggg | ctgctaggat | gtggaactc |
| atttgcttt | cctatggctc | cagctcacca | gcctgtcaa | acggcagcg | tttccccact |
| ttcttcggaa | cgcacccatc | agccacactc | cacaacccta | cccgctgaa | actctttgaa |
| aagtggggct | ggaagaagat | tgttaccatc | cagcagacca | ctgaggtctt | cacttcgact |
| ccgtgacgac | tg9gaagac | agtgaacgag | gttggaaattg | agatacttt | cgcacagagt |
| ttctctcag | atccagctgt | gcccgtaaa | aacctgaagc | cgcagagctc | ccggaatcct |
| gtg9ggacttt | tctatgagac | tgaagcccg | aaagttttt | gtgaggtgt | caa9gagcgt |
| ctcttttg9ga | agaagtacgt | ctggttctct | atbggttggt | atgctgacaa | ttggttcaag |

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gcactcttct cttcccatgc tctcccttgc ctgtccagca ggggtctccc aacaagtgtt ctttccaccc
tctgcccctt gctctgttc tctccttttc tccactgtca taactttact tgccttcta
caagggggcc tctccttttc tccactgtca taactttact tgccttcta
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ctctcatggt catgggtctg cccttgagcg tgttgggta ggcatgtgca atttgcctag

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|-----|-------|---|-------------|--|-----------------|
| 398 | 17535 | Gaba (b) Receptor 1 | NP_001461.1 | <p>catgctgagt catgtctttc ctattgcac agtccatgt ttatccatgt actttccctg tgtaacctcc atgtaccttg tgtactttct tcccttaaat catggtattc ttctgacaga gccatatgta cccatccctg cacattgta tgcacttttc cccaattcat gtttggtggg gccatccaca cccctcctct ctcacagaat gtcactttct cctcagattc ccccatctc cattgcattc atgtactacc ctcagctac actcacaatc atcttctccc aagactgctc cctttgtttt tgtgtttttt tgaggggaat taagggaaaa taagtggggg caggttttga gagctgcttc cagtggatag ttgatgagaa tcttgaccaa aggaaggcac ccttgactgt tgggatagac agatggacct atggggtggg agtggtgtgc cctttcacac tgtggtgtct cttggggaag gatctcccg aatctcaata aaccagtga cagtgtgact cggcaaaaa aaaa</p> | Homo sapiens |
| 399 | 17666 | Glucagon- Like Peptide 1 Receptor | NM_002062 | <p>gaattccggg ttgtgcatc cactctggaa ccgctcgtgt gtggcctgtc ggaatgacat A cgccctcatc agtctccgca cgcgttccc aggtggcagc gatggcccag tcctgaactc ccggccatgg ccggcgcccc cggcccgtct cgccttgccg tgcgtgctc cgggatggtg ggcaggggcg gccccgcgcc ccagggtgcc actgtgtccc tctggagac ggtgcagaaa tgccgagaat accgacgcca gtgccagcc cccctgactg aggatccacc tcctgccaca gacttgctt gcaaccggac cttcgatgaa tacgctcgtc ggcagatgg ggagccaggc tcgttcgtga atgtcagctg cccctggtac ctgcccctggg ccagcagtgt gccgcaaggc ccagtgtacc ggttctgac agctgaagc cttcggctgc agaaggacaa ctccagcctg ccctggaggg actgtgcga gtgcgaggag tccaagcgag gggagagaa ctcctcgag gagcagctcc tgttccctca catcatctac accgtgggct agcactctc cttctctgtc ctggttatcg cctctcgat cctcctcggc ttcagacacc tgcactgcac caggaactac atccacctga acctgtttgc atccttcac ctgcgagcat tgtccgtctt cateaaggac gcagccctga agtggatgta tagcacagcc gccacagc accagtggga tgggctcctc tctacctgg actctctgag ctgccgcctg gtgtttctgc tcatgcagta ctgtgtggcg</p> | Homo sapiens |

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|-----|-------|-------------------------------------|-------------|---|---------------------------------|--------------|
| 400 | 17666 | Glucagon-Like Peptide 1 Receptor | NP_002053.1 | gccaattact actggctctt ggtggagggc gtgtacctgt acacactgct ggcttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggtgggg tgctccctg ctgtttgttg tccctgggg cattgtcaag taccttatg aggacgagg ctgtggacc aggaaactca acatgaacta ctggctcatt atccggctgc ccttctctt tgccattggg gtgaacttcc tcactttgt tcgggtcatt tgcatcgtgg tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga cttgccaagt ccacgtgac actcatcccc ctgctgggga ctcatgaggt catctttgcc ttgtgatgg acgacagc ccgggggacc ctgcgcttca tcaagctgtt tacagagctc tccttcacct ccttccagg gctgatgggtg gccatattat actgctttgt caacaatgag gtccagctgg aatttcgga gagctgggag cgctggcggc ttgagcaact gcacatccag agggacagca gcatgaagcc cctcaagtgt cccaccagca gcctgagcag tggagccacg gcgggcagca gcatgtacac agccacttgc caggcctcct gcagctgaga ctccagcgc tcctcctcct gggtccttg ctgcagcgg gtggccaatc cagctctccc cacaatatcc | SLMETVQKWR EYRQCQRL TEDPPPTDL P | Homo sapiens |
| | | | | FCNRTFEYA CWPDGEPSF VNVSCPWYLP WASSVPQGHV YRFTAEGLV LQKDNSSLPW RDLSECEESK RGERSSPEEQ LLFLYIITV GYALSFALV IASAILLGR HLHCTRNYIH LNLFASFILR ALSVFIKDAK LKWMYSTAAQ QHWDGLLSY LDSLSCRLVF LLMQYCVAA YVWLLVEGVY LYTLIAFSLV SEQWIFRLV SIGWGVPLF VVPWGVKYL YEDEGCWTRN SNMNYWLIIR LPILFAIGN FLIFRVICI VVSKKANLM CKTDIKCRLA KSTLTLLPL GTHEVIFAFV MDEHARGTLR FIKLFTLSF TSFQGLMVAI LYCFVNNVQ LEFRKSWERW RLEHLHIQRD SSMKPLKCP TSSLSSGATAG SSMYTATCQA SCS | | |
| 401 | 18471 | G Protein-Coupled Receptor LOC51210 | NM_016372 | gccttgacac tggagatgct tactgaggg ggtgctcttg ttagactatt tgcaggtcgt A gagatagagc ctgagatggg ggactgggccc cctgcctggg ggattgggtc gtgacctgtg tggagcccca cactgagctg cagtgggtgg ggagggtgtg ttacaggggt gctctgtgca gcccccttga ttttccccctg ggagtccacg gtccagggga aggaggacag tggcccaggc cacacagctc actggcgccg tctcactccc ccagggtcgtg ctgctggcgg gatggacacc ctggaggagg tgaactgggc caatgggagc acagcgctac ccccccctt ggcaccaaac atcagtgtgc ctcatcgctg cctgctgctg ctctacgaag acattggcac ctccagggtc cggtaactgg accctttgct gctcatcccc aatgtgctct tcctcatctt cctgctctgg aagcttccat ctgctcgggc gaagatccgc atcacctcca gccccattt tatcaccttc tacatccctg tgtttgtggt ggcctgggtg ggcattgcc gggcctggt atccatgacg gtgagcacct cgaacgctgc aactgttgc tgaatagatc tgtggagat caccgcttc ttcctgctgg ccacagact gagtgtgac atcctgggccc tggcctttgg cactgggag agtgaagtcca gcatcaagcg ggtgctggcc atcacacag tgctgtccct ggcctactct gtcacccagg ggaccctgga gatcctgtac cctgagctac atctctcagc tgaggacttt aatatctatg gccatggggg ccgccagttc tggctggtca gctcctgctt cttcttctg gtctactctc tgggtgtcat ccttcccaag accccgctga aggagcgcac ctcccgtcct tctcggagga gcttctacgt gtatggcggc atcctggcac tgcctaacct actgcagggg ctgggggagtg tctgctgtg ctctgacatc atcagagggg tctgctgtgt agatgccaca accttccctg acttcagctt cttcgtctcg ctcatctacg tggcttctc cgggggcttc ttcgggctcg agcccaagat cctcttctcc taaaaatgcc aagtggacga gacagaggag | | Homo sapiens |

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|-----|-------|---|-------------|--|-----------------|
| 402 | 18471 | G Protein- Coupled Receptor LOC51210 | NP_057456.1 | <p> ccagatgtac acctaccacca gccctacgct gtggccggcg gggaggcgct ggaggtgca ggggctgctg gggcctcagc tgccagctac tcgagcacgc agttcgactc tgccggcggg gtggcctacc tggatgacat cgttccatg cgtggcaca cggcagcat caacagaca gacagcagc gctggaagc catcaatgcc tgaggcagc tgccaggcc tgtgaggac aggccagaga gaggccagc agggccagag tccccaggg aggagacca ggtcaaggga cgttctgtgg gcagtagccc tgtgtggccc tgttcacc atgagtctgg agggccacc tccttggggc tcccaatccc cttggccatc tctgtctca cttggggacc tctccctt cccacctgct ctcatactgc tcagtacat gggccaggct tctctccag ggcctgctt ggcaagggtg gctgagggca cctccttct ctgcaccctt ggcagcaggg caggctggc tctcccaatg cctccatccc atcccatgg tgccttggcc tctcaaac atccaccatg gtggatggac tgaagtgtgt atatttctt gatctattt ttaataaaaa ggaagaggag caaaaaaa aaaaaaagt ttg LLWKLPSARA KIRITSSPIF ITFYILVFW ALVGLARAV SMTVSTSNAA TVADKILMEI TRFFLLAIEL SVIILGLAFG TWESKSIKR VLAIITVLSL AYSVTQGTLE ILYPDAHLSA EDENIYGHGG RQFWLVSSCF FFLVYSLVVI LPKTPIKERI SLPSSRSFYV YAGILALLNL LQGLGSVLLC FDIIEGLCCV DATTFLYFSF FAPLIYVAFI RGFFGSEPKI LFSYKQCVDE TEEPDVHLPQ PYAVARREGL EAAGAAGASA ASYSSTQFDS AGGVAYLDDI ASMPCHTGS NSTDSERWKA INA </p> | Homo sapiens |
| 403 | 19072 | G Protein- Coupled Receptor Is19072 | LG100650 | <p> agtgatgagc ggcggctgccc tggcagtgca gtgggctggc tggatgtgg gggcctctcc A ctgctggcca atgcccgggg catctcagc gttggcgcca agcagaagaa gtggaagccc ttggagtcc tgcgtgttac actcggggcc accccatgc taaatgtggc cgtgcccatc gccacctact ccgtgggtgca actcggcgcc cagcggccc agtcagatg gaatgagggt ctctgcaagg tcttcgtgtc cacttctac accctcacc tggccacctg tttctctgtc acctccctct cctaccaccc catgtggatg gtcgtctggc ctgtcaacta ccggtgagca tgtgaagtcc tggggttctt ggggttctaa gcaggcgtga aacaaagac atatctggtg tgcccatgcg cacacaggag tggccacacc tgtggcatgc tgggagggca ggcaggctca ggaggggctg ctgtaagctg ctgggggcat acacgtagct ttgcatgggt agacacaaac agccaataca gaatgcttgg aagagggacg tgtgacaatg ttcacagtat ctcctatgca aggaaacagg cctggccaca ctggtctgtc catgactatg atatactggg ggtgtgggtg gcctgggtgg tgcggatccc ctacaggtcc ccaggacct ggggaggccc tgtgggtgac gccagatccc tctgttccac cctgctcat gcaaggctga gcaatgcaa gaagcaggcg gtgcacacag tcatgggtat ctggatgggt tcttccatcc tgtcggccct gectgccgtt ggctggcacg acaccagcga gcgttctac acccatggct gcgcttcat cgtggctgag atcggcctgg gctttggcgt ctgcttctg ctgctggtgg gcggcagcgt ggcctatggc gtgatctgca cagccatcgc cctctccag acgtggccg tgcaggtggg gcgccaggcc gaccgcgcg ccttccacct gccaccatc tgggtggag acgcgcaggc caagcggcgc tcttccatcg atggctcgga gccggccaaa acctctctg agaccacggg cctcgtgacc accatagtct tcatctacga ctgcctcatg ggtctccctg tgcgtgtggg tgacggcgtc gggtagaggg gcctgtctct gggacagccc tggggtgct cactaccag gcctcaggtg gttgagtctc cagaccacat cctttgagat ggccttgatc atcgtcccca ttttccagat </p> | Homo sapiens |

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|--------------|-------------|------------|-------------|------------|-------------|
| ttggaacccg | aggttcaagag | aggtgtaaa | acctgctag | agtcaggcca | gctggtggg |
| acttgaacc | acatccggca | actgcaggc | ccagggccta | gctgctacag | tgcaagaag |
| ttttactccc | ttgccaagg | ccattttt | tgttttgt | tactttatt | tattatttta |
| ttttttgagac | agattttgc | tcttttgcc | caggctggat | gtgcaatggc | acaatctcag |
| cttcacttgcaa | actctgcctc | cttggttcaa | cgagctctc | tgccatgccc | tccaagtacg |
| ttgggattaca | ggtgcgcct | gccacgctg | gctaatttt | ttttgtatt | tttagtacag |
| acaggttttc | acatgttag | tcaggtgtg | ctcgaactc | tgacctcag | tgatctgccc |
| atctcagcct | cccaaactgc | taggattaca | agcgtgaacc | actgcatctg | gctcaagggg |
| ccggtttgatg | cagaggttag | atagcatacc | catgggtttc | ctggtgggtc | caggtcccac |
| gagtgacaga | ggggactttg | gtgccttag | tggttagga | ggggcgcagg | atcaggagaa |
| agatgcaagg | caggcccttg | ctcaaatgc | tgttgggag | tgcatctga | tactaacggc |
| tgggggaagg | caaggtgag | ctgctgtga | gaaaggcctt | gccgacaaa | gtctgaggtc |
| cagaggggct | gcctggggtc | ctctgttga | agctgggacc | agcttggccc | agaaatgaag |
| tctgactca | gtagccaa | cctgcccct | gcaggactct | acgcccactc | ccgaaaggct |
| tgcagtgaga | cagggagagg | actggggcaa | agaccagcct | gaggggtttc | atccaagcag |
| caggcaagac | tgcttccct | gagccattgc | aggacatgct | gacatgagct | ccagaatggt |
| gactcgaggg | gtggcagctt | cagatcgag | gacttgctca | ggaggcagcc | cccatctgcc |
| cacccccagc | agggcctggt | ctcccagct | aggggtctc | atgtgtacag | tgggggctgg |
| cagcccgtc | cctgtgcaga | tgaggggcag | gggcttcatt | aaacagcaga | gacccacaag |
| gcacctcgg | agcagagtgg | gggcagtgtg | ggggagaggc | ggggctggga | gggagtcaga |
| accacccctg | cgctctctac | ggacggggaa | gaggttacag | cttgtggggc | cactccatgc |
| tgctgttata | aagcgtccgg | agcttccac | ctctagagca | tggtcgtgtt | ttagcccatc |
| ttccagatga | agaaactgag | ccccaagg | gtttagagc | ttctcgagtc | tcagctggcc |
| cacaaacggc | agaatcaaca | taccacact | ctccacact | tcactctttt | gtggcagtca |
| cttaagcatc | actctttgg | acagagcaac | gagggctatc | ctgggagagg | aggaatgcag |
| ggacccaaa | gcaggggtag | ggctgaggag | ggcactggcc | gggaaggggg | tggtagaatc |
| ttgaacaggc | ttgagacctg | gttctctaa | cctcagtttc | ctcatctcaa | aaaggggatg |
| gcagccgggc | acagtattc | ataccggtta | cttcgagcact | ttgggagggc | gaggcaggag |
| gactctttaa | gcccaggaga | tggaagctgc | agtaggccat | gattgagcca | ctgcactcca |
| gcctgggtga | cagaatgaga | ctgtctcaa | acaaaggcgg | gaggaagttg | taatccatgc |
| cccacttctc | tccatgggca | gccaggagga | agacagagca | agggcaccca | gtgctgccca |
| gtagccagg | agctcccga | agggggggc | tcccactgcc | acgtccagc | tctttctccc |
| ccaaggggcc | cttctccttg | gcagataccc | acctgtcaga | cctgccgtac | acatggggag |
| accgagactc | agggggagct | tgtgtgatgg | tggggggtcc | tgcaggtgcc | agggccagccc |
| ctgtgcccac | aggttggtgag | cttcagcagc | ctgcggggcg | acgctctcag | gctctggatg |
| gcactctcgc | tgctgtgggt | gttccgtggc | caggccctgc | tgctgctctg | gttccctctgg |
| gcctgcgacc | gctaccgggc | tgacctcaa | gctgtccggg | agaagtgcac | ggccctcatg |
| gccaaagac | aggagtcaga | cgatggt | | | |

Homo

sapiens

2

THMLNVAVPI

LEFLLCTLAA

VGA KQKWKP

LLANAWGILS

VGWLVCGLS

SDERRLPGSA

ENSP0000016

Protein-

19072 G

404

Ls19072

19501

G Protein-
Coupled
Receptor
KIAA0758

AB018301

405

GSVAMGVICT AIALFQTLAV QVGRQADRRRA FTVPTIVVED AQGKRSSID GSEPAKTSIQ
 TTGLVTTIVF IYDCLMGFPV LVVSFSLRA DASAEWMALC VLMCSVAQAL LLPVFLWACD
 RYRADLKAVR EKMALMAMD EESDDG
 gtgcaagaag aaaaatagatg ttatggcccat ccaaatatttg gcaaatgaag aaatgaaggt A
 gatgtgcgac acaaatcctg tatctttgaa ctgctgcagt cagggtaatg ttaattggag sapiens
 caaagttagaa tgggaagcagg aaggaataat aaatattcca ggaacccctg agacagacat
 agattctagc tgcagcagat acacctcaa ggcgtatgga acccagtgcc caagcgggtc
 gtctggaaaca acagtcactc acacttgtga gtccatcagt gcctatggag ccagaggcag
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| | | | | | |
|-----|-------|---|------------|--|--|
| 406 | 19501 | G Protein- Coupled Receptor KIAA0758 | BAA34478.1 | <p> tgaacaagc aggtccactc agaaagccat tgccttctgt cttggctatg gctgcccaat tgccatctcg gtcatacgc tgggagccac ccagcccg gaaagtctata cgaggagaa tgtctgttg ctcaactggg aggacacaa ggcctgtctg gcttlogcca tcccagcaat gatcattgtg gtggtgaaca taaccatcac tatttgtgc atcaccaaga tccctgagcc ttccattgga gacaagccat gcaagcagga gaagagcagc ctgtttcaga tcagcaagag cattggggtc ctacacccac tcttggcct cacttgggt ttgtgtctca ccactgtgtt cccaggacc aaccttgtgt tccatataat atttggcat tccaatgtct cccaggagt attcatttta ctctttggat gctctggga tctgaagta caggaaagctt tgctgaataa gttttcattg tcgagatggt tctcacagca ctcaaatgca acatccctgg gtcatccac acctgtgtt tctatgagtt ctccaatctc aaggagattt acaaatgtgt ttggtaaaac aggaaagctat aatgtttcca cccagagagc aaccagctca tccctggaaa actcatccag tgcttctcg ttgctcaact aagaacagga taatccaacc tacgtgacct cccggggaca gtggctgtc ttttaaaag agatgcttg aaagcaatgg ggaacgtgtt ctcggggcag gttccggga gcagatgcca aaaagacttt tctatagaga agaggttctc tttgtaaaag acagaataaa aataattgtt atgttctgt ttgttccctc cccctcccc ttgtgtgata ccacatgtgt atagtattta agtgaacctc aagccctcaa ggcctcaact ctctgtctat atgtaatat agaatttcca agagacattt tcaattttha cacattgggc acaagataa gctttgatta agtagtaag taaaaggcta cctaggaat acttcagtga attctaagaa ggaaggagg aaggaaggaa ggaagaaagg gaggaagaa ggaagaaagg gaaaaagaa aaaaagagaa agatgaaaat aggaacaaaat aaagacaaaac aacattaaag gccatatgt aagatttcca tgttaatgat ctaataaat cactcagtcg aacattgaga atttttttt taatggctca aaaaatggaa ctgaaagcaa gtcattggga atgaatactt tgggcagat cttctgatg tcttcttag taagaggagg aaaaaaggc tgaataataa gggaggaat tcttcatca gaacgacttc aagtggataa caatatttat aagaaatgaa tggagggaaa tatgatctc ctgagactaa ctttgtatgt taagggttga actaagtga tgatctgca gaggaagtat tataaagata tgtcattaga tccaagtgtc gattaaattt ttatagtta tcagaaaagc cttatattt agttgttcc acattttgaa agcaaaaaat atatatgga tataccctc aattgccaa ttgtatgtg tgcactgaag acagaccctg tcatatatt aatggctta agcaggtact tctctgtgca ttatagaata gattttaata atcttatagc attgtatatt attattgctg ttgtcactgt tattattatt gtggatactg gcccttgggtg tgttgcatag ctccctatgt attctctgt tccatcttta agttcccaga ccaatataca ttaagagttt tgcattggtc aaattgtgtt tattccaacc acgtggaaaag ctccctggaaa gaaattttac attcgggtgt tctgtgctc taatgacact tgacctgtgt gaacaaaatgg cagagccttt cccaaggatt tgattgtttg tgaattatct gcatgtgtgc ttttttttg tgtgtattc ataaaaaat ataaatttt atg </p> | <p> Homo sapiens CKKKIDVMP I QILANEEMKV MCDNNPVSLN CCSQGNVWS KVEWKQEGKI NIPGTPETDI P DSSCSRYTLK ADGTQCPGSGS SGTTVIYTCF FISAYGARGS ANIKVTFISV ANLITPDPI SVSEGNFNSI KCISDVSNYD EYWNISAGI KIYQRFYTR RYLDGAESVL TVKSTREWN GTYHCIFRYK NSYSIATKDV IVHPLPLKLN IMVDPLEATV SCGSHHIKC CIEEDGDYKV TFHMGSSSLP AAKEVNNKQV CYKHNENASS VSWCSKTVDV CCHFTNAANN SWSPSPMKLN LVPGENITCQ DPEVIGVEPG KVIQKLCRFS NVFSSPESPI GGTITYKCVG SQWEEKRND </p> |
|-----|-------|---|------------|--|--|

| | | | | | | |
|-----|-------|--|----------|--|---|-----------------|
| 407 | 21632 | G Protein- Coupled Receptor Ls21632 | AB040964 | <p>ISAPINSLQ MAKALIKSPS QDEMLPTYLK DLSISIDKAE HEISSPSGSL GAINILDLL STVPTQVNSE MMTHVLSTVN VILGKPVINT WKVLOQWNTN QSSQLHSVE RFSQALQSGD SPPLSFSQTN VQMSSTVIKS SHPETYQORF VFPYFDLWGN VVIDKSYLEN LQSDSSIVTM AFPTLQAILA QDIQENFAE SLVMTTIVSH NTTMPFRISM TFKNNSPSGG ETKCFWFNFR LANNTGGWDS SGCYVEEGDG DNVTCICDHL TFSILMSPD SPDPSSLGI LLDIISYVGV GFSILSLAAC LWAEAVVWKS VTKNRTSYMR HSCIVNIAAS LLVANTWFIIV VAAIQDNRYI LCKTACVAAT FFIHFFYLSV FFWMLTILGLM LFYRLVFILH ETSSTQKAI AFCILGYGCPL AISVITLIGAT QPREVYTRKN VCWLNWEDTK ALLAFAPAL IIVVNIITIT IIVITKILRP SIGDKPCKQE KSSLFQISKS IGVLTPLILGL TWGFGITTFV PGTNLVFIHII FAILNVFQGL FILLFGCLWD LKQAEALLNK FLSLRWSSQH SKSTSLSGST PVFSMSSPIS RRENFLGKT GTYNVSTPEA TSSSLENSSS ASSLLN</p> | <p>accacctcat cccgtcccta cgccaagtgg tgttccaggg ggatcggtg ccttccagt A gctctgccag ctacctgggc aacgacaccc gcatccgctg gtaccacaac cgagcccctg tggagggtga tgagcaggcg ggcatactcc tggccgagag cctcatccac gactgcacct tcatcaccag tgagctgacg ctgtctaca tggcgtgtg ggctcaggc gactgggagt gcaccgtgtc catggcccaa ggcaacgcca gcaagaaggt ggagatcgtg gtgctggaga cctctgcttc ctactgcccc gccgagcgtg ttgccaaaca ccgctgggag ttcagggtgc cccgaactct ggctggcctc acagctacc agctcctcc ggatgtacc ttcacctcag tgccccctgg cggggggtgc ccgggcaccc gagctcccc cggtgtgtac cgtgccggcc gctgggagcc aggggactac tcccactgtc ttaccaccaa cgacatcacc aggtgctgt acaccttctg gctgatgccc atcaatgctt ccaatgctt gacctggct caccagctgc gcgtgtacac agccgaggcc gctagctttt cagacatgat ggatgtagtc tatgtgctc agatgatcca gaaatttttg ggttatgtcg accagatcaa agagctggtg gagtggatgg tggacatggc cagcaacctg atgtgtgtg acgagcacct gctgtggctg gccagcgcg aggacaaggc ctgcagccgc atcgtgggtg ccttgaggcg cattgggggg gccgacctca gccccatgc ccagcacatc tcagtgaatg cgaggaaact ggcatggag gcctacctca tcaagccgca cagctacgtg ggctgacct gcacagcctt ccagaggag gagggagggg tgccgggac acggccaggga agccctggcc agaaccctcc acctgagccc gagccccag ctgaccagca gctccgcttc cgtgaccca ccgggaggcc caatgtttct ctgtcgtcct tccacatcaa gaacagcgtg gccctggcct ccatccagct gccccgagt ctattctcat cccttcggc tggcctggct cccccgtgc cccagactg caccctgcaa ctgtcgtct tccgaaatgg ccgctcttc caccgcca gcaacacctc ccgccccgga gctgctgggc ctggcaagag gcgtggcgtg gccacccccg tcatcttgc aggaacctg ggctgtggcg tgggaaacct gacagagcca gtggccgttt cgctgcgga ctgggctgag ggagccgaac ctgtggccgc ttgttgagc caggaggggc ccggggaggc tgggggctgg acctcgagg gctgccagct ccgtccagc cagcccaatg tcagcgcct gcactgccag cacttggga atgtggccgt gctcatggag ctgagcgcct tccccaggga ggtggggggc gccggggcag ggctgcacc cgtgggtatc ccttgcaagg ccttctgtct gctctgcctc ttccgacca tcatcaccta catctcaac cacagctcca tccgtgtgtc ccggaaggc tggcacatgc tgctgaactt gtgtctccac atagccatga cctctgctgt ctttgcgggg ggcatacac tcaccaacta ccagatggct tggcaggcgg tgggcatcac cctgcactac tcctccctat</p> | Homo sapiens |
|-----|-------|--|----------|--|---|-----------------|

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Homo
sapiens

P

BAA96055.1

21632 G Protein-
Coupled
Receptor
Is21632

408

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Homo
sapiens

A

NM_020400

22315 G Protein-
Coupled
Receptor
GPR92/GPR93

409

410 22315 G Protein-
Coupled
Receptor
GPR92/GPR93 NP_065133

411 22925 Latrophilin- NM_015236
3

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| | tctgtgaggt | gaggcagatg | aagccatttc | gtggttctgc | tgagcatggt | cttggcagtg |
| | tttttggag | catcacactg | tgccccttt | gttaacttgc | tagccccgcc | tgtcttttgc |
| | ccggggctca | atggctggat | tgtggaaact | gacccgcct | tcaggttggt | gagcaactga |
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actctgtccg ggcctatggac cagctggtag gctcctctaga tgtacagctt cggaaactga
ccccaggtgg aaagatagat gctgcccgga gtttgaaaca gcttcagaaa agagagcgt
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aacaaccatg agcgtccag tgaacagaac aggaatctga tgaacaagct ggtgaataac
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aattagactt ccttccctca ctatatatct ttatgcagtc agaattttc caacagtgtt
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gctgaatgct cagctctgac aacaagtggg cactgcact accacttttt agaggaaatt
cactccctcg taagcattgg aaggtcaaat tattttgaag tgattttttt taacaaaaag
tcttctgttt attaacagga aaatttattt atttgacag attttgagta atgtaggaat
acaaaaggta aattagcagc acataaatt tttttttaat ttatgatcca ttttgtatgg
tctcaaaagt gtagcacctc attactaata tttgtgttaa aagtgaacct tgtttgcaa
ccaataaaca actgatttag attagaaga tatgtataa aaaaaaaa aaa
TDDKICSDP AQMENIRCYL PDAYKIMSQR CNRTQCAV AGPDVFPDPC PGTYKYLEVQ

Homo sapiens

P

IMIESANYGR

IELRCPGTDV

RRELSCE

SYN

SRAPIPMAV

MLAPIIHAF

NP_056051.1

Latrophilin-

22925

3

412

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|-----|-------|--|-------------|--|-----------------|
| 413 | 25359 | G Protein- Coupled Receptor GPR34 | NM_005300 | <p>YECVPYKVEQ KVFELCPGLLK GVYQSEHLFE SDHQSGAWCK DPLOASDKIY YMPWTPYRTD TLTEYSSKDD FIAGREPTTY KLPHRVDTGT FVVDGALFF NKERTRNIVK FDLRTRIKSG EAIIANANYH DTSPYRWGGK SDIDLAVDEN GNGKIVISQL NPYTLRIEGT WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPPFNS YQYIAAVDYN PRDNLIVWN NYHVVKYSLD FGLDSSRGQ AHGQVSYIS PPIHLDSELE RPSVKDISTT GPLMGSTTT STTLRTTLLS PGRSTPSVS GRNRSTSTP SPAVEVLDDM TTHLPSASSQ IPALAESCEA VEAREIMWFK TRQQIAKQP CPAGTIGVST YLCLAPDGIW DPQGPDLNSC SSPWNHITQ KLKSGETAAN IARELAEQTR NHIINAGDITY SVRAMDQLVG LLDVQLRNL T PGKDSAAARS LNKLQKRERS CRAYVQAMVE TVNNLLQPOA INAWRDLTTS DQLRAATMLL HTVEESAFVL ADNLKTDIV RENTDNKLE VARLSTEGNL EDLKFPENMG HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGFYLSTENA SMKLGTEALS TNHSTVIVNSP VITAAINKEF SNKVYLADPV VFTVKHIKQS EENFNPCSF WSKSKRTMTG YWSTQGCRLL TTNKTHYTC CNHLTNFAVL MAHVEVKHSD AVHDLLEDVI TWVGILLSLV CLLICIFTFC FFERGLQSDRN TIHKNLCISL FVRELFLIG INRTDQPIAC AVFAALLHFF FLAFTWMFL EGVQLYIMLV EVFESEHSRR KYFYLVGGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF IWSFIGPATL IIMLVIFLG IALYKMFHTT AILKPESGCL DNINYEDNR PFIKSWVIGAI ALLCLGLTW AFGLMYINES TVIMAYLFTI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT HCCSGKSTES SIGSGKTS GS RTPGRYSTGS QSRIRRMWD TVRKQSESSF ITGDINSSAS LNREPYRETS MGVKLNIAQY IGASEQCQGY KCHGYSTTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtca gcagctggcc ttactcctcc A cacagaatgc gctttataac caatcatagc gaccacccgc cacaaaaactt ctcagcaaca ccaaatgtta ctacctgtcc catggatgaa aaattgctat ctactgtgtt aaccacatcc tactctgtta ttttcacgtt gggactgggt gggacataaa ttactatctac ttaacgtagc cattgcagac ggtattcacc gtaaaaagaaa ttccattcaa attatctatc ttaacgtagc cattgcagac ctctactca tcttctgcct cctttccga ataatgtatc atattaacca aaacaagtgg acactaggty tgattctgtg caaggttgg ggaacactgt tttatatgaa catgtacatt agcattattt tgcttggtt catcagtttg gatcgctata taaaaattaa tcggtctata cagcaacgga aggcaataac aaccaaaaca agtattttat tctgttgtat agtatggatg ctgctctctg tggattcct aactatgatt attttaacac ttaagaaagg agggcataat tccacaatgt gtttccatta cagagataag cataacgcaa agggagaagc cattttaac ttcatctctg tggtaattgt ctggctaatt ttcttactaa taatcctttc atattataag attgggaaga atctatgtg gatttctaaa aggaggtcaa aatttcctaa ttctggtaaa tatggccacta cagctcgtaa ctctttatt gtacttatca tttttactat atgttttgtt cctatcatg cctttcgatt catctacatt tcttcacagc taaatgtatc atctgtctac tggaagaaga ttgttcacaa aaccaatgag atcatgctgg ttctctcatc ttccaatagt tgcttagatc cagtcacgta ttctctgatg tccagtaaca ttcgcaaaa aatgtgcca ctctctttta gacgatttca aggtgaacca agtaggagtg aaagcattc agaatttaaa ccaggatatt cctgcatga tacatctgtg gcagtgaata tacagtctag ttctaaagt actga</p> | Homo sapiens |
| 414 | 25359 | G Protein- Coupled | NP_005291.1 | <p>MRSHITMTT TSVSSWPYSS HMRFITNHS DQPPQNFSA PNVTTCPMDE KLLSTVLTS P YSVIFIVGLV GNIIALYVFL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p> | Homo sapiens |

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|-------------------|-------|--|----------|--|-----------------|
| Receptor GPR34 | 30698 | G Protein- Coupled Receptor Ls30698 | AX068267 | <p>TLGVILCKV GTLFVNMVYI SIILLGFISL DRYIKNRSI QQRKAITTKQ SIYVCCIVWM LALGGFLTMI ILTLKKGHN STMCFYRDK HNAKEAIFN FILVMFWLI FLILILSYIK IGKNLLRISK RRSKFNPSGK YATTARNSFI VLIIFTICFV PYHAFRIYI SSQNLVSSCY WKEIVHKTNE IMLVLSSFNS CLDPVMYFLM SSNIRKIMCQ LLFRFQGEF SRSESTSEFK PGYSLHDTSV AVKIQSSSKS T</p> <p>gttctcagat cggctctctcg caacaggcag tcagttctca ctggggccct tggactccca A tttcaaaaat ggagagaca gatcacagcc actgaccagg gaccgtggga ggtgccacgt gatgtgagg catcatgcta gggagctgag ctctgacctt cctgctgggt gattctccac ctctgggctg ctatgattctac ttccctgagt cgtggaagt cctcatgtat gaaaaagaag tcccaggcaa ccatgatttg ctgcttagtg ttcttctgt ccacagaatg ttccactat agatccaaga ttcacctaaa aagctatagt gaagtggcca accacatcct cgacacagca gccatttcaa actgggcttt cattccaac aaaaatggcca gctcgatttt gttgcagtca gtgaatttgt ttgccagaca actccacatc cacaataatt ctgagaacat tgtgaatgaa ctcttcattc agacaaaagg gttccacatc aaccataata cctcagagaa aagctcaat ttctccatga gcatgaacaa taccacagaa gatatttag gaatggtaca gattccacag caagagctaa ggaagctgtg gccaaatgca tcccaagcca ttgacatagc ttcccaacc ttgggggcta tcctgagaga agcccacttg caaaatgtga gtcttccag acaggtaaat ggtctgggtgc tatcagtggt ttaccagaa aggttgcaag aaatcatact caccttcgaa aagatcaata aaaccgcgca ttccagagcc cagtgtgtg gctggcactc caagaaaagg agatgggatg agaaagcgtg ccaaatgatg ttggatatca ggaacgaagt gaaatgccgc tgtaactaca ccagtgtggt gatgtcttt tccatttca gtcttccaa atcgatgacc gacaaaagtc tggactacat cactgcatt gggtcagcg tctcaatcct aagcttggtt ctttgcctga tcattgaagc cacagtgtg tcccgggttg ttgtgacgga gatatacat atcggtcacg tgtgcatcgt gaatatagca gtgtcccttc gactgcccac tgtgtggtt atcataggct ctcaatttaa cattaaaggc caggactaca acatgtgtgt tgcagtgaca tttttcagcc actttttcta cctctctctg tttttctgga tgccttcaa agcattgtc atcatttatg gaattattgt cattttcctt aggatgaga agtcccgaat gatggtcatt ggctttgcca ttggctatgg gtgcccattg atcattgtgt tcaactagct tgctatcaca gagccagaga acggctacat gagacctgag gctgtttggc ttaactggga caataccaaa gcccttttag catttgccat cccggcgctt gtcatgtggg ctgtaaaatct gattgtggtt ttggtgtgtg ctgtcaaac ctgagggcc tctattggca gttccaaagc tcaggatgtg gtcataatta tgaggatcag caaaaatgtt gccatctcca ctccactgct gggactgacc tgggggtttg gaatagccac tctcatagaa ggcacttctt tgacgttcca tataattttt gccttgctca atgctttcca ggttttttct atctctgctt ttggaacctat tatggatcac aagataagag atgcttttag gatgaggatg tcttcaacta aggggaaatc gagggcagct gagaaatgcat cactaggccc aaccaatgga tcttaaataa tgaatcgtca aggatgaaat gctgccccat ttctcatgga tgtcctgaga ccaagagggt agatccagga gaaagaggcc atggaaaagca ggctggagt agggaggaatg gtcatgtctt cttggaagac ttctcttct tgtcaggagt gactcccaag ctcttggtcg gccgaagaaa aactgagat aacatttgc gactgggctt taaggagcat gatttatgga ccccttaacc taccgtgcc ctgcaagagg ctggcttctt ggtcaatctt gactagatta agagtcaatc tgcaagccat tttatggtct</p> | Homo sapiens |
|-------------------|-------|--|----------|--|-----------------|

| | | | | | |
|-----|-------|--|------------|---|-----------------|
| 416 | 30698 | G Protein- Coupled Receptor Ls30698 | CAC27252.1 | <p>ccctggccag ctgggggctg tagggccctg ctgggcttgg tegtctttca ctctgagggc</p> <p>ctgctctgtg gctccatagc ttagtctctc atcactctgc gtggatcctg ggtacttttg</p> <p>acagtgaagg ttcgatccaa ttttaggggt aggtgtgggg gtggagtgg ggtgtgggt</p> <p>tggcaggagg aagaatgagt ctactttgga gacaataag tctgtgtacg tttctaaag</p> <p>ataggggaag gaagaaagc aagagaactg tttatatgc tgaattttt agtctatttt</p> <p>agacctgag taaactaatt tagctctag gatcaagtt tcttatttt tgaacacagga</p> <p>aaaaaaatt ctgtgaggta ttactgtttg tgtgtttgag tttactgcac atgtttgtg</p> <p>ttgtgtatat gtgtctttta aaaatactat atataagaa gattctggtt gttatttttag</p> <p>acataaagc atatatgtac ctttcac</p> <p>MMKMSQATMI CCLVFFLSTE CSHYRSKIHL KSYSEVANHI LDTAAISNWA FIPNKNASSD P</p> <p>LLQSVNLFPAR QLHIHNSEN IVNELFIQTK GFHINHNTSE KSLNFSMSMN NTEDILGMV</p> <p>QIPRQELRKL WPNASQASI AFPTILGAILR EAHQNVSLP RQVNGLVLSV VLPERLQEI</p> <p>LTFEKINKTR NARAQCVGWH SKRRWDEKA QOMLDIRNE VKRCNYTSV VNSFSILMSS</p> <p>KSMTDKVL DY ITCIGLSVSI LSLVICLIE ATVWSRVVVT EISYMRHVCV VNIASVLLTA</p> <p>NVWFIIGSHF NIKAQDYNMC VAVTFESHFF YLSLFFWMLF KALLIYGIL VIFRRMMSR</p> <p>MMVIGFAIGY GCPLIAVTT VAITEPENGY MRPEACWLNW DNTKALLAFA IPAFVIVAVN</p> <p>LIVLVVAVN TQRPISGSSK SQDVVIIMRI SKNVAILTPL LGLTWGFGLA TLIEGTSLTF</p> <p>HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRSSLKKGK SRAENASIG PTNGSKIMNR</p> <p>QG</p> | Homo sapiens |
| 417 | 30875 | G Protein- Coupled Receptor GPR87/GPR95 | NM_023915 | <p>ggcacagagg tttcgttttc atgctttacc agaaaaatcca cttccctgcc gaccttagt A</p> <p>tcaaaagcta tttctaatta gagacaagaa acctgtttca acttgaagac accgtatgag</p> <p>gtgaatggac agccagccac cacaatgaaa gaaatcaaac caggaataac ctatgctgaa</p> <p>cccagcctc aatcgtcccc agtgtttcc tgacacgcat ctttgcctac agtgcacac</p> <p>aactgaagaa tggggttcaa cttagcgtt gcaaaaattc caataaaca gctgcacggc</p> <p>caagagagtc acaattcagg caacaggagc gacgggccag gaaagaacac cacccttcac</p> <p>aatgaatttg acacaattgt ctgtccggtg ctttatctca ttatatgtt ggcaagcatc</p> <p>ttgctgaatg gtttagcagt gtggatcttc ttccacatta ggaataaaa cagcttcata</p> <p>ttctatctca aaaacatagt ggttgcagac ctcataatga cgctgacatt tccatttcga</p> <p>atagtcctatg atgcaggatt tggaccttgg tacttcaagt ttattctctg cagatacact</p> <p>tcagttttgt tttatgcaa catgtatact tccatcgtgt tccctgggct gataagcatt</p> <p>gacgctatc tgaaggtggt caagccattt ggggactctc ggatgtacag cataacctc</p> <p>acgaaggttt tatctgtttg tgttgggtg atcatggctg ttttgccttt gccaaacatc</p> <p>atcctgacaa atggtcagcc aacagaggac aatatccatg actgctcaa acttaaaagt</p> <p>cccttggggg tcaaatggca tacggcagtc acctatgtga acagtgtct gtttgggccc</p> <p>gtgctgggtga tctgtatcga atgttacata gccatatcca ggtacatcca caaatccagc</p> <p>agccaattca taagtacgac agccgaaaag gaaaacata accagagcat cagggttgtt</p> <p>gtggctgtgt tttttacctg ctttctacca taccattgt gcagaattcc ttttactttt</p> <p>agtcacttag acaggctttt agatgaatct gcacaaaaa tccatatata ctgcaaaagaa</p> <p>attacacttt tcttgcctgc gtgtaattgt tgcctggatc caataattta ctttttcag</p> <p>tgtagggtcat tttcaagaag gctgttcaaa aaatcaaaa tcagaaccag gagtgaagc</p> <p>atcagatcac tgcaaaagtgt gagaagatcg gaagttcgca tatattatga ttacactgat</p> | Homo sapiens |

Homo
sapiensHomo
sapiensHomo
sapiensHomo
sapiens

NP_076404.1
G Protein-
Coupled
Receptor
GPR87/GPR95

NM_007369
G Protein-
Coupled
Receptor RE2

NP_031395.1
G Protein-
Coupled
Receptor RE2

NM_003667
G Protein-
Coupled

418 gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt
ttcattatcc ttaaaaaaa aa
419 MGFNLTIAKL PNNEHQES HNSGNSRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILIN P
GLAVWIFEH RNKTSFIFYL KNIVADLIM TITFFPRIVH DAGFGPWYFK FILCRYTSVL
FYANMYTSIV FLGLISIDRY LKVKPFGDS RMYSTFTKV LSVCVWIMA VLSLPNIILT
NGQPTEDNIH DCSKLSPIG VKWHTAVTYV NSCLFVAVLV ILIGCYIAIS RYIHKSRRQF
ISQSSRRKH NQSIKRVAV FFTCFEPYHL CRITPFSHL DRLDESAQK ILYYCKEITL
FLSACNVCLD PIYFFMCRS FSRRLFKSN IRTFSESIRS LQSVRRSEVR IYYDYTDV
31568 ggccttatct ttccagtcgt ccagcatgct ctgccaccc cagcgcgag gtcactgacc A
atgagcctca actctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag
ggtggcgaa gggcgctcat catcacccag ttcacgcga tcatgtcat caccatttt
gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc
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ctgccttttg tggtagcag ctccatcgc aggaatgga tcttgggtg agtgtgtgtc
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attgccatcg accgtacta tctgtcctg taccccatg tgtacccat gaagatcaca
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aactccagca cctccacctc ctcttcaggc agcaggagga atgccttca ggtgtgtgtc
tactcggcca accagtgcac agccctcctc accatcctg tggctcctgg tgccttcctg
gtcacctgg gccctacat ggttgtctc cctctgagg cctctgggg gaaaagctcc
gtctccccga gctggagac ttgggccaca tggctgtcct ttgccagcgc tgtctgccac
ccccgatct atggactctg gaacaagaca gtctgcacaa aactactgg catgtgcttt
gggacccgt attatcgga accatttgt caacgacaga ggaactccag gctcttcagc
atttccaca ggtacacaga cctgggctg tccccacc tcaactgcgt catggcagggt
ggacagccc tggggcacag cagcagcag ggggacactg gcttcagctg ctccccaggac
tcaggtaacc tgcgtgcttt ataagcctc cacctgtcgc gtttccctg tgttgcgttt
ccccctgtc gcgttcccc tgtgcaggct caagagctgg cggaggggca tttccccg
tg
420 MSINSSLSR KELSNTLEE GEGGVITQ FIAIIVITF VCLGNLVIV TLYKKSyllT P
LSNKFVSLT LSNFLLSVL LPFVATSSIR REWIFGVVWC NFSALLYLLI SSASMLTLGV
IAIDRYAVL YPMVPMKIT GNRVAMALV IWLHSLIGCL PPLFGWSSVE FDEFKMCVA
AWHREPGYTA FQVWICALFP FLVMLVCYGF IFRVARVKAR KVHCGTVVIV EEDAQRTGRK
NSSTSTSSG SRNFAQGVV YSANQKALI TILVLAGFM VTWGPYMVVI ASEALWGKSS
VSPSLETWAT WLSFASAVCH PLIYGLMNKT VRKELLMCF GDRIYREFV QRQTSRLFS
ISNRITDLGL SPHLTALMAG GQPLGHSST GDTGFSCSQD SGNLRAL
421 atggacacct cccggctcgg tgtgtcctcg tcttgcctg tctgtctgca gctggcacc A
gggggcagct ctcccaggct tgggtgtgtg ctgagggggt cccccacaca ctgtcattgc

Receptor
GPR49

gagccccgacg gcaggatgtt gctcagggtg gactgtctcg acctgggggt ctcggagctg ccttccaacc tcagcgtctt cactctctac ctgacctca gtatgaaca catcagtcag ctgctccga atccccgtcc cagtctcgc ttcctgagg agttacgtct tgcgggaacc gctcgacat acattcccga gggagcattc actggccttt acagtcttaa agttcttatg ctgcagaata atcagctaag acacgtaccc acagtgctc tgcagaattt gcgaagcctt caatccccgc gtcggatgc taaccacatc agctatgtgc cccaagctg ttcagtggtc ctgcattccc ttaggcacot gtggctggat gacaatgcgt taacagaaat cccgtccag gcttttagaa gtttatcggc attgcaagcc atgaccttgg ccttgaaca aatacaccc ataccagact atgcctttgg aaacctctcc agcttggtag ttctacatct ccataacaat agaattccat cctggggaaa gaaatgcttt gatgggtccc acagcctaga gacttttagat ttaaattaca ataaccgtga tgaattcccc actgcaatta ggacactctc caaccttaaa gaactaggat ttcatagcaa caatatcagg tcgataaccty agaaagcatt tgtaggcaac ccttctctta ttacaataca tttctatgac aatccacctc aatttggtag gagatctgct tttcaacatt tacctgaact aagaacactg actctgaatg gtgctcaca aataactgaa tttcctgatt taactggaac tgcaaacctg gagagctcga ctttaactgg agcacagatc tcactctctc ctcaaacctg ctgcaatcag ttacctaatc tccaagtgtc agatctgtct tacaacctat tagaagattt acccagtttt tcaagtctgc aaaagcttca gaaaattgac ctgaagacata atgaaatcta cgaattataa gtgacactt tccagcagtt gcttagcctc cgatcgctga atttggcttg gaacaaatt gctattattc acccaatgc attttccact ttgccatccc taataaagct ggacctatcg tccaacctcc tgtcgtcttt tcttataact gggttacatg gtttaactca cttaaaaatta acaggaaatc atgccttaca gagcttgata tcacttgaaa actttccaga actcaagggt atagaaatgc cttatgctta ccagtgtgtg gcatttggag tgtgtgagaa tgcctataag atttctaatac aatggaaata aggtgacaac agcagttatgg acgaccttca taagaaagat gctggaatgt ttcagggtca agatgaacgt gaccttgaag atttctctgt tgacttttag gaagacctga aagcccttca ttcagtgcaag tgttccactt cccaggtccc cttcaaaccc tgtgaacacc tgttgatgg ctggctgac agaatggag tgtggacct agcagttctg gcacttactt gtaatgcttt ggtgacttca acagttttca gatccccct gtacatttcc cccattaaac tgttaattgg ggtcatcgca gcagtgaaca tgcctacggg agtctccagt gccgtgctgg ctgggtgga tgcgttccact tttggcagct ttgcacgaca tgggtgcctgg tgggagaatg gggttggtg ccatgtcatt ggttttttgt ccatttttgc ttcagaatca tctgttttcc tgcctactct ggcagccctg gagcgtgggt tctctgtgaa atattctgca aaattgaaa cgaagctcc attttctagc ctgaaagtaa tcaattttgt ctgtgcccctg ctggccttga ccatggccc agttcccctg agcaccatgg gcaagtatgg cgctccctct cctctgcctg ctttgccttt tggggagccc agcaccatgg gtacatgggt cgtctctcatc ttgtcctaat cctttgtctt cctcatgatg accattgcct acaccaagct ctactgcaat ttggacaagg gagacctgga gaattattgg gactgctcta tggtaaaaca cattgcctg ttgcttctca ccaactgat cctaaactgc cctgtggctt tcttctcctt cctctcttta ataaacctta catttatcag tccctgaagta attaaagtta tccctctggt ggtagtccca ctctctgcat gtctcaatcc ccttctctac atcttgttca atctctactt taaggaggat ctgggtgagc tgagaaagca aacctacgtc tggacaagat caaacaccc aagcttgatg tcaattaaact ctgatgatgt cgaataaacag

| | | | | | |
|-----|-------|---|-------------|---|-----------------|
| 422 | 36534 | G Protein- Coupled Receptor GPR49 | NP_003658.1 | <p>tctgtgact caactcaagc cttggttaacc ttaccagct ccagcatcac ttatgacctg cctccagtt ccgtgccatc accagcttat ccagtactg agagtgcca tcttctctt gtggcattg tcccatgtct ctaa</p> <p>PSNLSVFTSY LDLSMNNISQ SLPLVLQAT GGSSPRSGVL LRGCPTHCHC EPDGRMLLRV DCSDLGISEL P LQNNQLRHVP TEALQNLRSL QSLRLDANHI SYPPSCFSG LHSRLHMLD DNALTEIPVQ AFRSLALQA MTLALNKIHH IPDYAFGNLS SLVVLHNN RHSLGKKCF DGLHSLFTLD LNNNLDEEP TAIRTLNLIK ELGFHSNNIR SIPEKAFVGN PSLITIHFD NPIQFVGRSA FQHLPELRTL TLNGASQITE FPDLTGTANL ESLTLTAQI SSLPQTVCNQ LPNLQVLDSL YNLLEDPSF SVCQKLQKID LRHNEIYEIK VDTFOQLLSL RSLNLAWNKI AIIHPNAFST LPSLIKLDLS SNLLSFPIT GLHGLTHLKL TGNHALQSLI SSENFPPELV IEMPYAYQCC AFGVCENAYK ISNQWNKGDN SSMDDLHRKD AGMFQAQDER DLEDFLDFE EDLKALHSVQ CSPSPGPEKP CEHLLDGWL I RIGVWTIAVL ALTCONALVTS TVFRSPLYIS PIKLLIGVIA AVNMLTGVSS AVLAGVDFT FGSFARHGAW WENGVGCHVI GFSLIFASES SVFLLTLAAL ERGFVKYSA KEETKAPFSS LKVIILICAL LALTMAAVPL LGSKYGRASP LCLPLPFGEF STMGYMVALI LLNSLCFLNM TIAYTKLYCN LDKGDLENIW DCSMVKHIAL LLFTNCILNC PVAFLSFSSIL INLTFSPEV IKFILLVVP LPACLNPLY ILFNPHFKED LVSLRKQTYV WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PPSSVPSPAY PVTESCHLSS VAFVPC</p> | Homo sapiens |
| 423 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | NM_004736 | <p>actagagatg gcggcgggc tgctctgaag agacctggc ggcgcgagg gagagagaa A gcgcagcgc gcgcgcgcgc ggggcccctg tggggaggag ccggatgcg tgttgccgc gccgctgta cgtctggag ccagtgaggga gtgaggggga aacggcagga tgaagtctgc cgagcacct cccgcgcaca tcactcccg a gtgagggaag caatacatcc agtataggc tttcaaggat atgtgtatt cagctcagga ccaggcacct tctgtggaag ttacagatga ggacacagta aagaggtatt ttgccaaagt tgaagagag tttttccaaa cctgtgaaaa agaaactgcc aaaaatcaaca cattttattc agagaagctc gcagaggctc agcgagggtt tgctacactt cagaaatgagc ttcagtcac actggatgca cagaaaagaaa gcactgggtg tactacgtg cgacaacgca gaaagccagt cttccacttg tcccatgagg aacgtgtcca acatagaaat attaaagacc ttaaaactgg cttcactgag ttctacctca gtctaatcct gctgcagaac tatcagaatc tgaattttac aggttttcga aaaatcctga aaaagcatga caagatcctg gaaacatctc ttggagcaga ttggcgagtg gctcacgtag aggtggcccc atthttatac tgcaagaaaa tcaaccagct tatctctgaa actgaggctg tagtgaccaa tgaacttgaa gatggtgaca gacaaaaggc tatgaagcgt ttacgtgtcc cccctttggg agctgctcag cctgcaccag catggactac ttttagattt ggcctatttt gtggaatat cattgtactg aatattacc ttgtgcttg cgtgtgattt aaacttgaaa cagatagaag tatatggccc ttgataagaa tctatcgggg tggctttctt cttgattgaat tctttttct actgggcac aacacgtatg gttggagaca ggctggagta aacctgtac tcatctttga acttaaatcg agaagcaatt tgtctcatca acatctctt gagattgctg gattcctcgg gatattgtgg tgcctgagcc ttctggcag cttctttgct ccaattagtg tcatccccc atatgtgtat ccacttgccc tttatggatt tatggttttc ttccttatca accccaccaa aactttctac tataaatccc ggttttggt gcttaaaactg ctgtttcag tattacagc</p> | Homo sapiens |

[illegible]

Homo sapiens

425

40881 Lung Seven
Transmembran
e Receptor 2
(LUSTR2)

Homo
sapiens

AX073578 A
agagatggca gtgagcgaga ggagggggct cggccgcggg agccccggg agtgggggca
gcggctact ctggtgctgc tgtgggtgg ctgctccgg cgcaccacc ggctggcgt
gacggggag aagcagcgg acatccagct gaacagcttc ggtttctaca ccaatggctc
tctggaggtg gattgagcg tctgcggtt gggcctccg gaggcagaag agaagtcct
gctggtggg ttcagtctca gccgggttcg gtctggcaga gttcgtctct attcaaccg
ggatttccag gactgcctc tccagaaaaa cagtagcagt tctcgtctc tgttctctat
caacaccaag gatctgcagg tccaggtgcg gaagtatgga gacgagaaga cgttggttat
ctttcccggt ctcctcccg aagcaccctc caaacagggt cccccgaag cacaggccac
agtcccccg aagtggtgat gcggaggag cctcgagcc agcaagccca agtcaacacc
cgcagtgatt cagggtccta gtgggaagga caaggacctg gtgttgggct tgaagccact
caacaactcc tacaacttca gtttccacgt ggtgatcggc tctcaggcgg aagaaggcca
gtacagcctg aacttccaca actgcaacaa ttcagtgcga ggaaggagc atccattcga
catcacggtg atgatccggg agaagaacc cgtggcttc ctgtcggcag cggagatgcc
ccttttcaa gtctacatgg tcatgtccg ctgttctct ggcgttgga tcttctgggt
gtccatctc tgcaggaaac cgtacagcgt cttcaagatc cactggctca tggcggcctt
ggccttcacc aagagcatct ctctctctt ccacagcatc aactactact tcatcaacag
ccaggggcac cccatcgaa gcttggcgt catgtactac atgcacacc tgcgaaagg
cgccctctc ttcatacaca tgcctctgat tggctcagg tgggcttca tcaagtacgt
cctgtcggat aaggagaaga agtctttgg gatcgtgat cccatgcagg tcttggccaa
gtggcctac atcatcatcg agtccgcga ggaaggcgc agcactacg tgcgttgga
ggagattttg ttcctgggtg acctcatctg ctgtgggtgc atctgttcc cgtagtctg
gtccatccgg catctccagg atcgtctgg cacagacgg aagtgggcag tgaacctggc
caagctgaag ctgttccggc attactatgt catgtctatc tgcactgtct acttcacccg
catcatcgcc atcctgtcgc agtggtgtgt gccctttcag tggcagtggt tgtaccagct
cttgggtgag ggctccacc tggccttctt cgtgctcag ggctacaagt tccagccac
agggaacaa cgtacactgc agtgcccca ggagacgag gagtatgtc agatggagca
agtaaatgac gactctgggt tccgggaagg cctctccaa gtcaacaaa cagccagcgg
gcgggaactg ttatgatcac ctccacatct cagaccaaa ggctcgtctc cccagcatt
tctcactcct gcccttctc cacagcgtat gtggggaggt ggaggggtc catgtggacc
aggcgcccg ctcgccggga ccccggttcc cggacaagcc catttggag aagatccct
tctccccc aaatatggg cagccctgtc ctaccocgg gaccacccct ccttccag
tatgtgtaca ataagacca atctgtttg ct
MAVSERRGLG RGSPAEWQR LLVLLLGCG SGRIHRLALT GEKRAIQLN SFGFYTNGLS P
EVELSVLRG IREAEKSLI VGFSLSRVS GRVRSYSTRD FQDCPLQKNS SSFLVFLIN
TKDLQVVRK YGEQKTLFI FGLLPEAPSK PGLPKQATV PRKVDGGTS AASKPKSTPA
VIQGPSKDK DLVGLSHLN NSYNFSFHV IGSQAEEGQY SLNFHNCNS VPGKEHPFDI
TVMIREKNPD GFLSAAEMPL FKLYMMSAC FLAAGIFWVS ILCRNTYSVF KIHWLMAALA
FTKISLLFH SINYFFINSQ GHPIEGLAVM YYIAHLKGA LLFTIALIG SGWAFIKYVL
SDKEKKVFI VIPMQVIANV AYIIIESREE GASDYLWKE ILFLVDLIC GAILFPVWS
IRHLQDASGT DGKAVNLAK LKLFRRHYVM VICVYFTRI IAILQVAVP FQWQLYQLL
VEGSTLAFV LTGYKFQPTG NNPLYQLPQE DEEDVQMEQV MTDSGFREGL SKVNKTASGR

426

40881 Lung Seven
Transmembran
e Receptor 2
(LUSTR2)

Homo
sapiens

CAC28410.1 P
MAVSERRGLG RGSPAEWQR LLVLLLGCG SGRIHRLALT GEKRAIQLN SFGFYTNGLS P
EVELSVLRG IREAEKSLI VGFSLSRVS GRVRSYSTRD FQDCPLQKNS SSFLVFLIN
TKDLQVVRK YGEQKTLFI FGLLPEAPSK PGLPKQATV PRKVDGGTS AASKPKSTPA
VIQGPSKDK DLVGLSHLN NSYNFSFHV IGSQAEEGQY SLNFHNCNS VPGKEHPFDI
TVMIREKNPD GFLSAAEMPL FKLYMMSAC FLAAGIFWVS ILCRNTYSVF KIHWLMAALA
FTKISLLFH SINYFFINSQ GHPIEGLAVM YYIAHLKGA LLFTIALIG SGWAFIKYVL
SDKEKKVFI VIPMQVIANV AYIIIESREE GASDYLWKE ILFLVDLIC GAILFPVWS
IRHLQDASGT DGKAVNLAK LKLFRRHYVM VICVYFTRI IAILQVAVP FQWQLYQLL
VEGSTLAFV LTGYKFQPTG NNPLYQLPQE DEEDVQMEQV MTDSGFREGL SKVNKTASGR

| 427 | 42697 | G Protein- Coupled Receptor GPR64 | NM_005756 | ELL | Homo sapiens |
|-----|-------|--|-----------|--|-----------------|
| | | | | agccagcccg aggcgcgag cggcaggtgt gcacagaggt tctccacttt gttttctgaa A | |
| | | | | ctcgcgttca ggtcgtttt cttctcagg cagttgggcc atgttggcag aactgaagaa | |
| | | | | gttttactga cgttcaagat attcctgttc ttcattgttc ttcattgttc tctgttaaca | |
| | | | | tccctggaag aagatactga taattccagt ttgtcaccac cacttgctaa attatctgtt | |
| | | | | gtcagtttg cccctctc caatgaggtt gaacacaa cctcaatga ttttacttta | |
| | | | | agtttactcc cttcaaacga acagaaaa actaaatca ctatagtaaa aacctcaat | |
| | | | | gcttcaggcg tcaaacccca gagaaatctc tgcaatttgt catctatttg caatgactca | |
| | | | | gcatttttta gaggtgagat catgttttcaa tatgataaag aaagcactgt tcccagaat | |
| | | | | caacatataa cgaatggcac ctttaactgga gtctgtcttc taagtgaatt aaacgctca | |
| | | | | gagctcaaca aaaccttgca aaccttaagt gagacttact ttataatgtg tgtacagca | |
| | | | | gaggcccaaa gcacattaaa ttgtacattc acaataaac tgaataatc atgaatgca | |
| | | | | tgtgtgtcaa tagcgccttt ggaagagta aagattcgac caatggaaca ctgctgctgt | |
| | | | | tctgtcagga taccctgccc ttctcccca gaaggttgg gaaagcttca gtgtgacctg | |
| | | | | caggatccca ttgtctgtct tgtgacctc ccactggcc caccattttc ttccagccaa | |
| | | | | tccatccag tgggtgctcg ggccactgtg ctttccagg tcccacaaac tacctctttt | |
| | | | | gctgagctc cagattatct accctgtgac cacaatgttc cctctccaat agggagatt | |
| | | | | caacccctt caccacagcc ttccctctcc atagtctcca gccctgacct tgacatgccc | |
| | | | | ccacagtctg aaacgatctc ttccctctat gcccaaccc atgtctccgg caccacact | |
| | | | | cctgtgaaag cctcatcttc ctctccacc gtgtctgccc ctggaatgt caacactacc | |
| | | | | agcgcacctc ctgtccagac agacatcgtc aaacacgca gtattttctga tcttgagaac | |
| | | | | caagtgttgc agatggagaa ggctctgttc ttggcagcc ttggagcctaa cctgcagga | |
| | | | | gaaatgatca accaagtccg cagactcctt cattcccg cttgacatgt ggccctctg | |
| | | | | gctcaaaagt tgcgtgaaat agtgatgac attgacctac agctgaactt ttcaaacacg | |
| | | | | actataagtc taacctccc ttctttggct ctggctgtga tcagagtga tgcagtagt | |
| | | | | ttcaacaaa ctacctttgt ggccaagac cctgaaaatc ttccaggtttc tctgaaaacc | |
| | | | | caagctcctg agaacagtat tggcaaat actctcctt catcgctgat gaataattta | |
| | | | | ccagctcatg acatggagct agcttccagg gttcagttca attttttga aacacctgct | |
| | | | | ttgtttcagg atccttccct ggagaaacct tctctgatca gctacgtcat atcatcgagt | |
| | | | | gttgcaaac tgacctcag gaactgaca agaactgtga cagtccatt aaagcacatc | |
| | | | | aaccgagcc aggtgagtt aacagtga tctgtatttt ggacttggg cagaaatggt | |
| | | | | ggcagaggag gctgggtcaga caatggctgc tctgtcaaa acaggagatt gaatgaaacc | |
| | | | | atctgtacct gtagecatct acaagcttc gggttctgc ttgacctatc taggacatct | |
| | | | | gtgctgcctg ctcaaatgat ggctctgac ttcatatcat atattggttg tgggtttca | |
| | | | | tcaatttttc tgtcagtgc tcttgaacc tacatagctt ttgaaaagat ccgagaggat | |
| | | | | taccttcca aaatccctcat ccagctgtgt gctgctctgc ttctgtgaa cctggtcttc | |
| | | | | ctccctgact cgtggattgc tctgtataag atgcaaggcc ttgtcatctc agtgggtgta | |
| | | | | ttcttctcatt attttctctt ggtctcattc acatggatgg gcttagaagc attccatag | |
| | | | | tacctggccc ttgtcaaatg atttaatact tacatccgaa aatacatcct taaattctgc | |
| | | | | attgtcgggtt ggggggtacc agctgtggtt gtgaccatca tctgactat atcccagat | |

aactatgggc ttggtatccta tgggaaattc cccaatgggt caccggatga cttctgctgg
 atcaacaaca atgcagtatt ctacattacg gtggtgggat attctgtgt gatattttg
 ctgaacgtca gcatgtcat tgtgtctctg gttcagctct gtcaattaa aaagaagaag
 caactgggag ccagcgaaa aaccagtatt caagacctca ggagtatcgc tggccttaca
 tttttactgg gaataacttg gggctttgcc ttctttgctt tttcattat catcttttac
 ttcatgtatc tgtttgccat ctttaatacc ttacaaggat ttctcattt cttcttttac
 tgtgtggcca aagaaaatgt caggaagcaa tggagggcgt atctttgttg tggaaagtta
 cggctggctg aaattctga ctggagttaa actgctacta atggtttaaa gaagcagact
 gtaaaccaag gagtgtccag ctcttcaat tccttaccgt caagcagtaa ctccactaac
 tccaccacac tgctagtga taatgatgc tcagtacacg caagcgggaa tggaaatgct
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 ttcactggaa aacagcacat gtttaacgag aaggaagatt cctgcaatgg gaaaggccgt
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 ctttcttcta aatcaaacg atgagtcttg acagtgtgaa atgtccaatt ttacctttta
 cacaatttga gatgtatga aatcaactca ttttattctc ggcaacatct ggagaagcat
 aagctaatta agggcgatga ttattattac aagaagaac caagacatta caccatgggt
 tttagacatt tctgatttgg tttcttatct ttcattttat aagaagggtg gttttaaca
 atacactaag aatgactcct ataaagaaa tcatataaag caactgttga cttcagccctg
 tttaaagagg ctaagttatc ttgtataaca tgcttttgg ttatttctag tgacctatgt
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 gtcaaaaatc ttacttctac atttttttgt atttatttc tactgtgtaa atgtattcct
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 tcaagaaata atgattccag ccagactgag aaaaatgtaag cagacagtgc cactgttagc
 tcatacagt cctttgagca agttaggaaa agatgcccc actgggcaga cacagcccta
 tgggtcatgg tttagacaaac agagttagag accatatattt agccccactc accctcttgg
 gtgcacgacc tgtacagcca aacacagcat ccaatatgaa taccatccc ctgaccgcgt
 cccagtagt cagattatag aatctgcacc agagtgttga gctttatacc ttggccacag
 agagggatga actgtcatcc agaccatgtg tcaggaaaaat tgtgaacgta gatgaggtac
 atacactgcc gcttctcaa tccccagagc ctttaggaac aggagagtag actaggattc
 cttctcttaa aaaggtacat atatatgga aaaaatcata ttgccgttct ttaaaaggca
 actgcatggt acattgttga ttgttatgac tggtaacctc tggccagcc agagctataa
 ttgtttttta aatgtgtctt gaagaatgca cagtacaag gggagttagct attgggaaca
 gggaactgtc ctacactgct attgttgcta catgtatcga gccttgattg ctcctagtta
 tatacaggggt ctatcttctg tccctacctac atctgttga gcagtgcctc aagtacatcc
 ttattaggaa catttcaaac cctttttagt taagtctttc actaaggttc tcttgcatat
 atttcaagt aatgttggat ctcagactaa ccatagtaat aatacacatt tctgtgagt
 ctgacttctc ttgtcaatat tttctttctg attatttaa ttttcttga ttttatgtt
 aaaatcaaaa atgttaaaat caatgaata aattgcagt taaga
 NP_005747.1 MVFSPVRCGH VGRTEEVLLT FKIFIVICL HVLVTSLEE DTDNSSLSP PAKLSVVSFA P
 PSSNEVETTS LNDVTLSLP SNETKTKIT IVKTFNASGV KPQRNICNLS SICNDSAFFR sapiens

Receptor
GPR64

429 45937 KIAA1624 AF376725
Protein

GEIMFQYDKE STVPQNOHIT NGTLTGVLSL SELKRSELNK TLQTLSETYF IMCATAEAAQS
TLNCTFTIKL NNTVMNACAAI AALERVKIRP MEHCCCSVRI PCPSSPEELG KLQCDLQDPI
VCLADHPRGP PFSSSQSIPV VPRATVLSQV PKATCSFAEP DYPVTHNVP SPIGEIQPLS
PQPSAPIASS PAIDMPPOSE TISSPMQTH VSGTTPPVKA SFSSFTVSAP ANVNTTSAPP
VQTDIVNTSS ISDLENQVLIQ MEKALSIGSL EPNLAGEMIN QVSRLLHSP DMLAPLAQRL
LKVVDDIGLIQ LNFSENTISL TSPSLALAVI RVNASSENTT TFVAQDPANL QVSELTQAPE
NSIGTITLPS SLMNNLPAHD MELASRVQFN FFETALFQD PSLENLSLIS YVTSVVANL
TVRNLTRNVT VTLKHINPSQ DELTVRCVFW DLGRNGRGG WSDNGCSVKD RRLNETICTC
SHLTSFGVLL DLSRTSVLPA QMMALTFITY IGCGLSSIFL SVTLVITYAF EKIRRDYPSK
ILIQLCAALL LNLVFLDLS WIALYKMOGL CISVAVELHY FLVSVFTWMG LEAFHMYIAL
VKVFNTYIRK YILKFCIVGW GVPVAVVTII LTISPDPNYGL GSYGKFPNGS PDDFCWINNN
AVFYITVVG Y FCVIFLLNVS MFIVVLVQLC RIKKKQLGA QRKTSIQDLR SIAGLTFLLG
ITWGFAPFAW GPVNVTFMYL FAIFNTLQGF FIFIFYCVAK ENVRKQWRRY LCCGKLRLAE
NSDWSKTATN GLKKQTQVNG VSSSSNSLQS SSNSTNSTTL LVNDCSVHA SGNNGNASTER
NGVSFSVQNG DVCLHDFTGK QHMFNEKEDS CNGKGRMALR RTSKRGSLHF IEQM
gaacaaacat ggcgcgtctg ggcgcgtctg ggcgcgtctg ctcgcgcgt ctcgcgcgtg A
ccgcggcgt ccgcgtgctc ccaatgctg gttgctgca gttgctgccc gagcctggcc
tgggcgcgt ccatacctg gcaatcaag atgctgtag gcataaagtt catctgaaca
cctttggctt cttcaaggat ggtgacatgg tggggaatg cagtagcctc teactgaatg
agcctgaaga caaggatgtg actatggat ttggcctaga cgtacaaaag aatgatggct
ttcttcttta cctggatgaa gatgtaatt actgtatttt aaagaaacag tctgtctctg
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aggagcctaa tgttaacct gcttcagcag gcaaccagac ccagaagaca caagatggg
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ataataatgg tggggcagtg tcatttcagt tttcttttaa catcagcact gatgaccaag
aaggccttta cagtctttat tttcataaat gccttggaaa agaattgcca agtgacaaagt
ttacattcag ccttgatatt gtagcacacag agaagaatcc tgacagctac ctctcagcag
gagaaattcc tctcccaaa ttatcatctt caatggcctt tttcttctt ctttctggga
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tgggcgccct tctttcacc aagtctctt ccttggtgtt ccatgcaatt gactaccact
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ttttgaaaag ggcgtactc ttcatcaca ttgacatcat tggcactggc tgggctttca
ttaagcacat ccttctctg atcatcatag agtccaccga ggagggcag actgaatatg
tcctggcaaa tgtagcctac ttctgtgtc actgtgtgt tttgtgtgccc atctcttcc
cagtgtgtg gtcaatcaga cattacaag aagcatcag aacagatgga aaagctgcta
ttaacttagc aaagtgaat cttttcagac attattacgt cttgattgtg tgttacatat
acttactag gatcattgca tttctctca aactcgtgt tccattccag tggagtggtg
tctaccagct cctggatgaa acggccacac tgggtcttct tgttctaag ggtataaaat
tccgtccggc ttcagataac cctacactac aacttctca ggaagaagaa gacttggaaa

Homo
sapiens

| | | | | | |
|-----|-------|-----------------------------------|-----------|---|-----------------|
| 430 | 45937 | KIAA1624 Protein | AAK57695 | <p>tggagtcctg tgtgacaaca tctggggtga tggaaagtat gaagaagtc aagaaggtga ccaacggctc cgtggagccc caggcgagt gggaagcgc cgtgtacag agccgacct gagatggca ctgtccaagg aaactgttaa cttatcata gtctattgg acagcaggag cagctctac agtgaactat tggcaccacc gacagtaca ccagggcaca tggctggagc acagtgcgc ggaacactga tttgtactc tctttatgg aaacgatctg tggctgttta gaggcagtg gatacctttt caggcggaa tgggagcgc ggcacagga ggagagagg aagagaaaag gaagaattca ttttaattt agtttcttt ttttctctt cattcggag ctctaagggtg tatgcattg tgacccatg tgtgggaaag ttagcaagg acggtggtg gagggggaag gaggtgcga ggtgtctgtc tgatgctta ggaatgtct actgaggacc ctgggactta agaagaagg cggggagagt gccattgctt gttgggaga caaaatgaa cgaacacagg tgactttgga aagcaaatc aaacccagt ttaggatga gcacctgcc caggattcct gccctcgct tggcccca gacatttcc agatgctgag agtgaccagg acagcagctc ctgaggccca gtggtctctt tccaacagg aaagaaggc tgtgatgtc ctgtcaggat catgcccgtg ggcacagcac aggtgtggtg agtggtttt ctgactgaga tgttgcctga tggatgaaa gaaatgtatt ttaagtcca aaagcatta tctgtggcg ttgcctggac atccactcc tgacagcca gagcagact gtctggcttc cctcatgct tgtgcttg ttgttttga tcagaattt gggggaatg gaaagtctt ctcaaggagc agctggggc agaatagta gtatttaagc aaatactaa gtccaagca atcatccca ttaaaggct tttcctgtag gctagttag aaaaaaaa aaaaa MAALAPVGS ASRGPRLAG LRLPLMLGL QLLAEPGLGR VHLLAKDDV RHKHLNTFG P FFKDGVMVN VSSLSNEPE DKDVTIGFSL DRKNDGSS WLDEVNICY LKKQSVSVTL LILDIRSEV RVKSPNEAG QLPKIIISRD EKVQSQSEP NWNPASAGN QTKTQDGGS KRSTVDSKAM GEKSFVHNN GAVSFQFF NISTDQGL YSLYFKCLG KELPSDKFTF SLDIEITERN PDSYLSAGEI PLPKLYISMA FFFLSGTIW IHILKRNRD VKIHLWMAA LPFTKSLSV FHAIDYHYS SQGFPIEWA VVYIITHLK GALLFITIAL IGTWAFIKH ILSDKDKKIF MIVIPQLVLA NVAYIIEST EEGTEYGLW KDSLFLVDLL CCGAILFPV WSIRHLQEAS ATDGKAAINL AKLKLFRHY VLIVCYIYFT RIIAFLKLA VPFQWRWLYQ LLDETATLVE FVLGYKFRP ASDNPYLQLS QEEEDLEMS VVTTSGVMS MKKVKRVNTG SVEPQGEWEG AV</p> | Homo sapiens |
| 431 | 50847 | Neurotensin Receptor type 2 | NM_012344 | <p>gagtgaagg gagggagcgc cggccgcggg agcgggatgg aaaccagcag cccgcggccc A ccgcggccc gctcaacc cgggctgagc ctggagccc ggctggcgct ggacactgc ctctgggcca aggtgctgtt caccgcgtc tacgactca tctggcgct ggcgcgcg ggcaatgcgc tgtccgtgca cgtggtgctg aaggcgcgcg cggcgcgctg cgccaccacg tgcacagctt ggcctgcgc ggcctgctg tgcgtgctg cggcgctgc gtggagctct acagcttctg gtggttccac taccctggg tcttcggcg cctgggctg cgcggctact acttcgtgca cgagctgtgc gcctacgcca cgtgctgag cgtggcaggc ctgagcgccg agcgtgctt agcgtgtgc cagccctgc gtgcccgcag cctgctgag ccacgccga cccggtggtt ggtggcgctc tctggggcgg cctcgctcg cctcgccctg cccatggccg tcatcatggg gcagaagcac gaactgaga cggcgagcgg ggagccggag ccgcctcgc gagtgtgac ggtgctggtg agccgcacc cgtccaagt cttatccag gtgaatgtgc tgggtcctt cgtgctccc ttggcactaa ctgcttctt gaatggggtc</p> | Homo sapiens |

432

50847 Neurotensin
Receptor
type 2

NP_036476.1

P

Homo
sapiens

acagtgagcc acctgctggc cctctgtctcc caagtgcgct ccactctac ccggggcagc
 tccaccccca gccgcctgga gctgctgagt gaggagggtc tctcagctt catcgtatgg
 aagaagacct ttatccaggg aggccaggct agcctgggtg gacataaaga cgtgcgcggg
 atccgcagcc tccagcagc cgtccagggt ctcagagcca cgtggtcat gtatgtcatc
 tgctggctgc cgtaccatgc ccgcaggctc atgtactgct acgtacctga tgacgcgtgg
 actgacccac tgtacaattt ctaccactac ttctactagg tgaccaacac acttttctac
 gtcagctcag ctgtgactcc tcttctctac aacgcgtgt cctcctctt cagaaaactc
 ttccctggaag ccgtcagctc cctgtgtgga gagcacacc ccatgaagcg gttacccccg
 aagccccaga gtccaccct aatggatata gcttcaggct ttggggatcc ccagaaaacc
 cggacctgaa tgtaatgcaa gaatgaacag aacaagcaaa atgaccagct gcttagtcac
 ctggcaaaag aggtgagcaa cctcatcact aatcattcaa gcttcgagc caggcgact
 tctatcaacc cctgctctgc tgagaacct caagcgagc gaagccacgt gaccctcct
 agcctcaggc tccctcgtct gtgtagtga gataaagaac agcaccatc tcttagtgtt
 gcctgagact aaagtgcctt gacagaacc tgggtgcgtag tagatgctca ataaattttt
 gctggcacg

433

53440 G Protein-
Coupled
Receptor
LS53440

AX107037

A

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sapiens

PSSNGLSLD ARLGVDTRLW AKVLFALYA LIWALGAAGN ALSVHVWLKA
 RAGRAGRLRH HVLSLALAGL LLLLVGPVE LYSFWFHYP WVFGLGCRG YFVHELCA
 ATVLVAGLS AERCLAVQCP LRARSLTPR RTRWLVALSW AASGLALPM AVIMGQKHEL
 ETADGEPEPA SRVCTVLVSR TALQVFIQW VLVSFVLPLA LTAFLNGTVV SHLLALCSQV
 PSTSTPGSST PSRLELSEE GLLSFVWKK TFIQGGQVSL VRHKDVRIR SIQRSVQVLR
 AIVVMYVICW LPYHARRIMY CYVPDDAWTD PLNYFYHYFY MTNTLFYVS SAVTPLLYNA
 VSSFRKLFL EAVSLGGEH HPMKRLPPKP QSPIMDTAS GFDDPPETRT
 cagagaggct gtatttcagt gcagcctgcc agacctctc tggaggaga ctggacaaag
 ggggtcacac attccttcca tacggttag cctctacctg cctggtgctg gtcacagttc
 agcttcttca tgatggtgga tcccaatggc aatgaatcca gtgctacata cttcatccta
 ataggcctcc ctggtttaga agaggctcag ttctggttgg ccttcccat gtgctccctc
 taccttattg ctgtgctagg taacttgaca atcatctaca ttgtgcggac tgagcacagc
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 gatgcttgc tgctacagat ttgtgccatc cactccttat ctggcatgga atccacagt
 ctgctggcca tggcttttga ccgctatgtg gccatctgtc acccactgcg ccatgccaca
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 tccattcct actgcttaca ccaagatgtc atgaagctgg cctgtgatga tatccgggtc
 aatgtcgtct atggccttat cgtcatcact tccgccattg gcctggactc acttctcatc
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 aaggcattg gcacttgcgt cctcatgtg tgtgtcgtgt tcatattcta tgtacctttc
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 ttggccaata tctatctgct ggttccctct gtgctcaac caattgtcta tggagtgaag
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gaccttcaa atatgaaact ggttgggaaa tctccatttt ttcaatatta ttttcttctt
gttttcttg ctacataaa ttattaatac cctgactagg ttgtggttgg aggtttatta
cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc
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gaaataattt ttctcttgga cactagactt taaggaggag attggaagta aagccttgaa
aagagtacat ttacctaact taatgaaagt tgacacactg ttctgagagt ttccacagca
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atagtagcc tcatgtagc catgggaaaa ttgatgttca gtggggatca gtgaattaaa
tggtgtcata caagtataaa aattaaaaaa aaaaagact tcatgccc aa tctcatatga
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attttctaga ggaggtattt aatttcttct cactcatcca gtgtgtgtatt taggaatttc
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gccaatacc tgtgtcttgg aagaagtgt ctactagttc accattatgg aagattctta
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aggaccatgc tttatttggg gctttgtgca gtatggaaca gggactttga gaccaggaaa
gcaatctgac ttaggcatgg gaatcaggca ttttgccttc tgaggggcta ttaccaagg
ttaataggtt tcatcttcaa caggatatga caacagtgtt aaccaagaaa ctcaaatatc
aaatactaaa acatgtgatc atatatgtgg taagttttcat tttctttttc aatcctcagg
ttccctgata tggattccta taacatgctt tcatccctt ttgtaattgga tatcatattt
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gccaaacctc tgtcatttgc aactcccat tgtatttga cgaggcagtt ggataagtga
aaaataaagt actattgtgt caagaaaaaa aaaaaaaaaa aaaaaaaaaa
aaaaaaaaa aaaaaa

Homo sapiens

CAC38935.1
G Protein-Coupled Receptor
LS5340
P
AVLGNLTIIY IVRTEHSLHE
LLOMFHLSL SGMESTVLLA
PLPVFIKQLP FCRSNILSHS
YLLILKTVLG LTREAQAKAF
DSPLPVILAN IYLLVPPVLN PIVYGVKTK
VATHASEP

434 53440

| 435 | 54053 | Gaba (b) Receptor 2 | NM_005458 | atgggttccc | cgcgagggtc | cgggcagcca | ggcgggccgc | cgccgcgcgc | acgcgcgcgc | A | Homo sapiens |
|-----|-------|------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|---|-----------------|
| | | | | gcgcgcctgc | tactgtact | gctgtgccc | ctgtgtgc | ctctggccgc | cggggcctgg | | |
| | | | | ggctgggcgc | gggggcgcgc | cgcgccgcgc | cccagcagcc | cgccgtcttc | catcatgggc | | |
| | | | | ctcatggccgc | tcaccaagga | ggtggccaag | ggcagcactg | ggcggtgtgt | gctcccgcgc | | |
| | | | | gtggaactgg | ccatcgagca | gatccgcaac | gagtcactcc | tgccccccta | cttctcgcac | | |
| | | | | ctgcggctct | atgacacgga | gtgcgacaac | gcaaaaggtt | tgaaagcctt | ctacgatgca | | |
| | | | | ataaaatacg | ggccgaacca | cttgatgggtg | tttggaggcg | tctgtccatc | cgtcacatcc | | |
| | | | | atcattgcag | agtcctccca | aggctggaat | ctggtgcagc | tttcttttgc | tgcaaccacg | | |
| | | | | ccgtgtctag | ccgataagaa | aaaataccct | tatttcttcc | ggaccgtccc | atcagacaat | | |
| | | | | gcggtgaatc | cagccattct | gaagtgtgtc | aagcactacc | agtggaaagc | cgtaggcacg | | |
| | | | | ctgacgcgaag | acgttcagag | gttctctgag | gtgcggaatg | acctgactgg | agttctgtat | | |
| | | | | ggcgaggaca | ttgagatttc | agacaccgag | agcttctcca | acgataccctg | taccagtgtc | | |
| | | | | aaaaagctga | aggggaatga | tgtgcggatc | atccttggcc | agtttgacca | gaatatggca | | |
| | | | | gcaaaagtgt | tctgttgtgc | atacgaggag | aacatgtatg | gtagtataata | tcagtggatc | | |
| | | | | atccggggct | ggtacgagcc | ttcttgggtg | gagcaggtgc | acacgggaagc | caactcatcc | | |
| | | | | cgctgcctcc | ggaagaatct | gcttgcctgc | atggagggct | acattggcgt | ggatttcgag | | |
| | | | | ccctgagct | ccaagcagat | caagaccatc | tcaggaaaaga | ctccacagca | gtatgagaga | | |
| | | | | gagtacaaca | acaagcggtc | aggcgtgggg | cccagcaagt | tccacgggta | cgcctacgat | | |
| | | | | ggcatctggg | tcctgcgcaa | gacactgcag | aggggccatg | agacactgca | tgccagcagc | | |
| | | | | cggcaccagc | ggatccagga | cttcaactac | acgggaccaca | cgctggggcag | gatactcctc | | |
| | | | | aatgccatga | acgagaccac | cttcttcggg | gtcacgggtc | aagtgttatt | ccggaatggg | | |
| | | | | gagagaatgg | ggaccattaa | atttactcaa | tttcaagaca | gcaggggaggt | gaaggtggga | | |
| | | | | gagtaaacg | ctgtggccga | cacactggag | atcatcaatg | acaccatcag | gttccaaagg | | |
| | | | | tccgaaccac | caaaagacaa | gaccatcatt | ctggagcagc | tgccggaagt | ctccctacct | | |
| | | | | ctctacagca | tcctctctgc | cctcaccatc | ctcgggatga | tcattggccag | tgcttttctc | | |
| | | | | ttcttcaaca | tcccttgagg | gaatcagaag | ctcataaaga | tgtcagatcc | atacatgaac | | |
| | | | | aaccttatca | tccttgagg | gatgtctctc | tatgttccca | tattctctt | tgcccttgat | | |
| | | | | ggatcccttg | tctctgaaaa | gacctttgaa | acactttgca | ccgtcaggac | ctggattctc | | |
| | | | | accgtgggct | acacgaccgc | ttttggggcc | atgtttgcaa | agacctggag | agtcacacgc | | |
| | | | | atcttcaaaa | atgtgaaaaat | gaagaagaag | atcatcaagg | accagaaact | gcttgtgatc | | |
| | | | | gtgggggggca | tgctgtgat | cgacctgtgt | atcctgatct | gctggcagcg | tgtggacccc | | |
| | | | | ctgcgaaggga | cagtgagagaa | gtacagcatg | gagccggacc | cagcaggagc | ggatatctcc | | |
| | | | | atccgccttc | tcctggagca | ctgtgagaac | accatatga | ccatctggct | tgccatcgtc | | |
| | | | | tatgcctaca | agggaacttct | catgttgttc | ggttgtttct | tagcttggga | gaccgcgaac | | |
| | | | | gtcagcatcc | ccgcactcaa | cgacagcaag | tacatcggga | tgagtgtcta | caactgtggg | | |
| | | | | atcatgtgca | tcacgtgggc | cgctgtctcc | ttcctgacc | gggaccagcc | caatgtgcag | | |
| | | | | ttctgcctcg | tggctctggt | catcatcttc | tgacgacca | tcacctctg | cctggtattc | | |
| | | | | gtgccgaagc | tcataccct | gagacaaaa | ccagatcgag | caacgcgaa | caggcgattc | | |
| | | | | cagttcactc | agaatcagaa | gaaagaagt | tctaaaacgt | ccacctcgt | caccagtgtg | | |
| | | | | aaccaagcca | gcacatccc | cctggagggc | ctacagtcag | aaaaccatcg | cctgcggaatg | | |
| | | | | aagatcacag | agctggataa | agacttggaa | gaggtcacca | tgacagtgc | ggacacacca | | |

| | | | | | |
|-----|-------|------------------------|-------------|---|--------------|
| 436 | 54053 | Gaba (b) Receptor 2 | NP_005449.1 | <p>gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg gaaacttca ctgagagcac agatggagga aagccattt taaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag ccctctcga cctgaaaga tcctatagaa gatataaact ctcagaaca catccagcgt cggctgtcc cccagctccc catcctccac cacgctacc tcccatccat cggagcgtg gagccagct gtgtcagccc ctgctgcaag cccaccgcca gccccgcca cagacatgtg ccaccctct cccagatcat ggtctcgggc ctgtaa</p> | Homo sapiens |
| 437 | 55728 | ETL protein | NM_022159 | <p>MASPRRSGQP GRPPPPPPP ARLLLLLLP LLLPLAPGAW GWARGAPRP PSSPPLSIMG P LMPLTKEVAK GSIGRGVLP VELAIEQIRN ESLLRPYFLD LRLYDTECDN AKGLKAFYDA IKYGNHLMV FGGVCPSTV IIAESLQGN LVQLSFAAT PVLADKKYP YFFRTVPSDN AVNPAILKL KHYQWKRVT LTQDVQRFSE VRNDLTGVLY GEDIEISDE SFSNDPCTSV KKLKGNDVRI ILGQFDQMA AKVFCCAYEE NMGSKYQWI IPGWYEPSWW EQVHTEANSS RCLRKNLLAA MEGYIGVDFE PLSSKQIKTI SGKTPQQYER EYNNKRSVG PSKFHGYAYD GIWVIKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRIL NAMNETNFFG VTGQVFRNG ERMGTIKFTQ FQDSREVKVG EYNAVADTLE IINDTIRFOG SEPPKDKTII LEQLRKISLP LYSILSALTI LGMIMASAFI FENIKNRNQK LKIMSSPYMN NLIILGMLS YASIFLFLGLD GSFVSEKTFE TLCTVRTWIL TVGYTTAFGA MFAKTRVHA IFKNVKKKK IIKDQKLLVI VGGMLLIDL ILICQAVDP LRRTVEKYSM EPDPAGRDIS IRPLEHCEN THMTIWLIV YAYKGLIMLF GCFLAWETRN VSIPALNDSK YIGMSVNVG IMCIIGAAS FLTRDQPNVQ FCIVALVIF CSTITLCLVF VPKLITLRTN PDAATQNRRE QFTQNKKEK SKTSTSVTSV NQASTSRLG LQSENHRLRM KITELDKOLE EVTMLQDTP EKTYYIKQNH YQELNDILNL GNFTSTDDG KAILKNHLDQ NPQLQWNTTE PSRTCKDPIE DINSPEHIQR RLSLQLPILH HAYLPSIGV DASCVSPCVS PTASPRHRV PSFRVMVSG L gtgaaattta aactccagtc ctgtggcgaa aatgctaatt gcactaacac agaaggaagt A tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gttatcact aatgatggaa ccgtctgtat agaaaatgtg aatgcaaaact gccatttaga taatgtctgt atagctgcaa atattaataa aactttaaca aaatcagat ccataaaaga acctgtggct ttgctacaag aagctctatg aaattctgtg acagatcttt caccaacaga tataattaca tatatagaaa tattagctga atcatcttca ttactaggtt acaagaacaa cactatctca gccaaggaca ccccttctaa ctcaactctt actgaatttg taaaaccgt gaataatttt gttcaagggt atacatttgt agttgggac aagttatctg tgaatcatag gagaacacat cttcaaaaac tcatgcacac tgttgaacaa gctactttta ggatattcca gagcttccaa aagaccacag agtttgatac aaattcaacg gatatagtc tcaaaagtttt cttttttgat tcatataaca tgaacacatat tcatcctcat atgaatatgg atggagacta cataaatata tttccaaaga gaaaagctgc atatgattca aatggcaatg ttgcagttgc attttatat tataagagta ttggtccttt gctttcatca tctgacaact tcttattgaa acctcaaaat tatgataatt ctgaagagga ggaagagtc atatctcag taatttcagt ctcaatgagc tcaaaaccac ccacattata tgaacttgaa aaataaacat ttacattag tcacgaaag gtcacagata ggtataggag tctatgtgca ttttggaatt actcacctga taccatgaat ggcagctggt cttcagaggg ctgtgagctg acatactcaa atgagacca cacctcatgc cgtgtgaatc acctgacaca ttttgcaatt ttgatgtcct ctggtccttc cattggtatt</p> | Homo sapiens |

| | | | | | |
|-----|-------|--------------------------------------|-------------|--|--------------|
| 438 | 55728 | ETL protein | NP_071442.1 | <p> aaagattata atattcttac aaggatcact caactaggaa taattatttc actgatttgt cttgccatat gcatttttac cttctggttc ttcaaggaaa ttcaaacac caggacaaca attcacaaaa atctttgctg tagcctattt cttgctgaac ttgtttttct tgttggtatc aatacaaaaa ctaataagct cttctgttca gactggtaca ctactctttt ttagctgctt ttgcattgat gtgcattgaa ggcatactc tctatctcat ttgttgggt gtcatctaca acaagggtatt ttgacacaag aattttata tctttggcta tctaagccca gccgtggtag ttggatttcc ggcagcacta ggatacagat attatggcac aacaaagta tgttggccta gcaccgaaaa caactttatt tggagtttta taggaccagc atgcctaattc attcttgcta atctcttggc ttttgagtc atcatataca aagtttttcg tcacactgca gggttgaac cagaagttag ttgctttgag aacataaggt cttgtgcaag aggagccctc gtctttctgt tctttctcgg caccacctgg atctttgggg ttctccatgt ttgtcacgca tcagtgggta cagcttacct cttcacagtc agcaatgctt tccaggggat gtctattttt ttattcctgt gtgttttacc tagaaagatt caagagaat attacagatt gtccaanaat gtccctctgt gttttggatg tttaaggtaa acatagagaa tgggtgataa ttcaactgca acaaaaataa aaattccaag ctgtggatga ccaatgtata aaatgactc atcaaatat ccaattatta actactagac aaaaagtatt ttaaatcagt ttttctgttt atgctatagg aactgtagat aataaggtaa aattatgtat catatagata tactatgttt ttctatgtga aatagttctg tcaaaaaatag tattcagat atttggaaa gaaatgggttt ctcaggagtg atatcactgc acccaaggaa agattttctt tctaacacga gaagtatatg aatgtcctga aggaaaccac tggcttgata ttctgtgac tctgtgtgcc ttgaaacta gtccctacc acctcggtaa tgagctccat tacagaaaagt ggaacataag agaatagaag ggcagaatat caaacagtga aaagggaatg ataagatga ttttgaatga actgtttttt ctgtagacta gctgagaaat tgttgacata aaataagaa ttgaagaaac acattttacc attttgtgaa ttgttctgaa cttaaatgtc cactaaaaa acctagactt ctgttttgcta aatctgttc ttttctaat attctaaa MCVPGFRSS NQDRFTNDG TVCIENVNAN CHLDNVCIAA NINKTITKIR SIKEPVALLQ P EYRNSVTDL SPTDIITYIE ILAESSLLG YKNTISAKD TLSNSTLTFE VRTVNNFVQR DTEVVWDKLS VNHRRHLTK LMHTVEQATL RISQSFQKTT EFDTNSTDIA LKVEFFDSYN MKHIHPHNM DGDIYINIFPK RKAAYDSNGN VAVAFLYYKS IGPLSSSDN FLLKRPQNYDN SEEEERVISS VISVSMSSNP PTLYELEKIT FTLSHRKVTD RYRSLCAFWN YSPDTMNGSW SSEGCETYS NETHTRCRN HLTHFAILMS SGPSGINKDY NILTRITQLG IISLILCLAI CIFTWFEESE IQSTRITHK NLCCSILFLAE LVFLVGINTN TNKLFCIIIA GLHYFFFLAA FAWMCIEGII LYLVVGVYIY NKGFLHKNFY IFGLYSPAV VGFSAALGYR YYGTTKVCWL STENNFIWSF IGPACLILV NLLAFGVIIY KVFRHTAGLK PEVSCFENIR SCARGALALL FLGTTWIFG VLVHVHASW TAYLFTVSNV FQGMFIFFL CVLSRKIQEE YYRLFKNVPC CFGCLR </p> | Homo sapiens |
| 439 | 56923 | Muscarinic acetylcholine Receptor M3 | NM_000740 | <p> atgacctgc acaataacag tacaacctgc ccttgtttc caaacatcag ctctcctgg A atacacagcc cctcagatgc aggtctgccc cctggaacccg tcaatcattt cggcagctac aatgtttctc gagcagctgg caattctcc tctccagacg gtaccaccga tgacctctg ggaggtcata cgtctggca agtgtcttc atcgtttctt taacgggcat cctggccttg gtgacctca tcggcaacat cctggttaatt gtgtcattta aggtcaacaa gcagctgaag </p> | Homo sapiens |

| | | | | | |
|-----|-------|--|-------------|---|-----------------|
| 440 | 56923 | Muscarinic acetylcholin e Receptor M3 | NP_000731.1 | <p> acggtcaaca actacttctt ctttaagcctg gccgtgtgctg atctgattat cgggggtcatt tcaatgaatc tgttttacgac ctacatcatc atgaatgat gggccttagg gaacttgcc tgtgacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaactttctg gtcatcagct ttgacagata cttttccatc acgagccgc tcacgtaccg agccaaacga acaacaaaga gagccgtgtg gatgateggt ctggcttggtg tcatctctt tgcctttgg gtccttgcca tcttgttctg gcaatacttt ttggaaga gaactgtgcc tccgggagag tgcttcattc agttcctcag tgagccacc attactttg gcacagccat cgtgctttt tatatgctg tcaccattat gactatttta tactgagga tctataagga aactgaaaag cgtaccaaag agcttgctg cctgcaagcc tctgggacag aggcagagac agaaaactt gtccaccca cgggcagttc tcgaagctg agcagttacg aacttcaaca gaaaagcag aaacgtcca acagaggaa gtatggccg tgcacttct ggttcacaac caagagctgg aaacccagct ccgagcagat ggaccaagac cacagcagca gtgacagtgt gaacaacat gatgtgctg cctccctgga gaactccgc tctccgagc aggcagacat tggctccgag acgagagcca tctactccat cgtgctcaag cttccgggtc acagaccat cctcaactcc accaagtac cctcatgga caacctgag gtgcctgag aggcagctgg gatggtggac ttggagagga aagccgacaa gctgagcc cagaagagcg tggacgatgg aggcagttt ccaaaagct tctccagct tccatccag cttaggtcag ccgtggacac agtaagact tctgacgtca actctcagt gggtaagagc acggccactc tacctctgc cttcaaggaa gccactctgg ccaagaggtt tgctctgaag accagaagtc agatcactaa gcggaaaagg atgtccctgg tcaaggagaa gaaagcgcc cagaccctca gtgcgatctt gcttgcttc atcatcactt ggaccccata caacatcatg gttctggtga acacctttg tgacagctgc ataccaaaa ccttttgga tctgggctac tgggtgtgct acatcaacag caccgtgaac ccggtgtgct atgctctgtg caacaaaaa ttcagaaacca ctttcaagat gctgctgctg tgccagtgtg acaaaaaaa gaggcgcaag cagcagttacc agcagagaca gtcggtcatt tttcaaacg gcgcacccga gcaggccttg tag GGHTVWQVVF IAFLTGILAL VTIIIGNILVI VSFKNKQLK TNNYFLLSL ACADLIIGVI SMNLFITYII MNRWALGNLA CDLWLADYV ASNASVMNL VISEDRYFSI TRPLTYRAKR TKRAGVMIG LAWVISFVLW APAILFWQYF VGRKTVPPGE CFIQFLSEPT ITFGTAIAAF YMPVTIMTIL YWRIYKETEK RKELAGLQA SGTEAETENF VHPTGSSRSC SSYELQQQM KRSNRRKYGR CHFWFTTKSW KPSSEQMDQD HSSSDSWNN DAAASLENSA SSDEEDIGSE TRAIYSIVLK LPHGSTILNS TKLPSSDNLQ VPEELGMVD LERKADKLOA QKSVDGGSF PKSFSKLPQ LESAVDTAKT SDVNSSVGKS TATPLPSFKE ATLAKEFALK TRSQITKRKR MSLVKEKKA QLSAILLAF IITWTPYNIM VLVNTFCDS IPKTFWNLGY WLCYINSTVN PVCYALCNKT FRTTFKMLL CQCDKKRRK QYQQRQSVI FHKRAPEQAL gaaactggcc ctggccctga accaaatacc ttgaacctc gtaaaccca taccctgacc A ccctgtgtt ggataacc aggtagaaca actctctc actgtctgtt gtgaggtatc gctgtagccc actcataag tacattctcc taataaagc ttgtgactgt tcaacctgcc agcttttgt cttgggcaat ctatacttt ctcagaggtt cccaagcct actgaaggga cttaacatac tcttaatggc ttctctctct ctgttttac cttatgcct cacttctga gttaacctcc caaatacagg atcacctgta ccaagccct tagctcaaga atacaggtac </p> | Homo sapiens |
| 441 | 57180 | Leukotriene B4 Receptor BLTR2 | NM_019839 | <p> gaaactggcc ctggccctga accaaatacc ttgaacctc gtaaaccca taccctgacc A ccctgtgtt ggataacc aggtagaaca actctctc actgtctgtt gtgaggtatc gctgtagccc actcataag tacattctcc taataaagc ttgtgactgt tcaacctgcc agcttttgt cttgggcaat ctatacttt ctcagaggtt cccaagcct actgaaggga cttaacatac tcttaatggc ttctctctct ctgttttac cttatgcct cacttctga gttaacctcc caaatacagg atcacctgta ccaagccct tagctcaaga atacaggtac </p> | Homo sapiens |

acctgtacc aagcccttag ctcaagctct gctttggaag aacccaaact aagacagtgc
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[illegible]

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ggccacgtcc ttcagcacga gactggcag cagggtcttc acctggcagc caccgagac
gccgacttc acgaggaagt catccactg ggagcgccc tccctggccc agccaccagg
gcggcgtggg agcagatcca gcgagcgag gtgcggcgga cacagtgtc ccgggcctc
gaggtact tcagcaactg ggcacgcaac gtgcggcgga cgtacctgc gccctcgtc
atcgtcaccc ccaacatgat tctgtgtgc gacatcttg acaagtcaa ctttacggga
gccagggtcc cgcgattcga caccatccat gagagttcc ccaggagct ggagtcctcc
gtctccttcc cagcgaactt cttcagacca cttgaagaaa aagaaggccc cctgctgagg
ccggctggcc ggagaccac ccgcagacc acgcgccccg ggccctggcag cagagggag

gccccgatca gcaggcgagg gcgacacccct gatgacgctg gccagttcgc cgtcgtctctg
gtcatcattt accgcacccct ggggcagctc ctgccccagc gctacgaccc cgaccgtcgc
agcctccggt tgcctaccg gccatcatt aataccccga tggtagcac gctggtgtac
agcgaggggg ctccgctcc gagacccctg gagagcccg tccgtgtgga gttcgccctg
ctggagggtg aggagcgaac caagcctgtc tgcgtgttct ggaaccactc cctggccggt
ggtgggacgg gaggtgtgtc tgccccgggc tgcgagctcc ttgccaggaa ccggacacat
gtcgccctgc agtgcagca cacagccagc ttgcggtgc tcatggatat ctccaggcgt
gagaacgggg aggtcctgcc tctgaagatt gtcacctatg ccgctgtgtc cttgtcactg
gcagccctgc tgggtgacct cgtccctcctg agcctgttcc gcagtgtgcg ctcaaacctg
cacagcttc acaagcacct cgcctgtggc ctcttctct ctccagctgggt gttcgtgatt
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accgaggtgc gcaacatcga cacgggggcc atgcggttct actacgtcgt gggctggggc
atccccgcca ttgtcacagg actggcggtc ggcctggacc cccagggcta cgggaaacccc
gacttctgct ggctgtcgt tcaagacacc ctgatttga gctttgcggg gcccatcgga
gctgttataa tcatcaaac agtcacttct gtccatctct caaagggttc ctgccaaaaga
aagcaccatt attatgggaa aaaaggatc gtctccctgc tgaggaccgc attcctcctg
ctgctgctca tcagcgccac ctggctgctg ggtgtgctgg ctgtgaaccg cgtgtcactg
agctttcact acctcttcgc catcttcagc ggcttacagg gcccttctgt cctccttttc
cactgctgc tcaaccagga ggtccggaa gcttgaagg gctgtcctcg cgggaggaag
ctgcacctgg aggactcgc caccacagg gccacctgc tgacgctc cctcaactgc
aacaccacct tcggtgacgg gcctgacatg ctgcgcacag acttgggcga gtccacccgc
tcgctggaca gcactgtcag ggtatgaagg atccagaagc tcggcgtgtc ctctgggctg
tgaggggca gccagggaga gccagacgg tcctcctatgc ccaggagctg caaggatccc
cctggccag attccgactc agatagcgag ctgtccctgg atgagcagag cagctcttac
gctcctcac actcgtcaga cagcgaggac gatgggtgg gagctgagga aaaaaggac
ccggccaggg gcgcgtcca cagaccccc aaaggggag ctgtggcca ccacgttccg
gccggctggc ccgaccagag cctggctgag agtgacagtg aggaccccc cggcaagccc
cgctgaaagg tggagaccaa ggtcagcgtg gagctgcacc gcgaggagca gggcagtcac
cgtggagagt acccccgga ccaggagagc gggggcgag ccaggcttgc tagcagccag
ccccagagc agaggaaaagg catctgaaa aataaagta cctacccgc gccgtgagc
ctgacggagc agacgtgaa gggccgctc cgggagaaagc tggccgactg tgagcagagc
cccacatct cgcgcactc ttccctggg ccttggcgcc cgcactgcg catcacagtc
aagagccctg ggaggagcc gggcgctgac cactcaacg ggttgccat gaatgtgcg
actgggagcg ccaggccga tggctccgac tctgagaaac cgtgaggcaa gccgtcac
ccacacaggc tgcggcatca ccttcagacc ttggagccca aggggccact gccctgaag
tggagtggc ccagagtgtg gcgtcccca tgggtggcga cccccactg atcatccaga
cacaaggctc ttggttctcc caggagctca gggcctgtca gacctgtga caagtgcga
aggccacagg catgagggag gcgtggacca ctgggccagc accgtgagt cctaagactg
cagtcacagg cagaactgag aggggacccc agactgggc cagaggctgg ccagagttca
ggaacgcccg gcacagacca aagaccgcg tccagccccg cccaggcgcg catctcatg

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|-----|-------|--|---|--------------|
| 444 | 73584 | Cadherin EGF NP_055061.1 LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flam ingo) | cagtgaggac ccgtggtggtg cagcccgggc agtcctttgc aaaggcaacc cttgtcttaa aatcacttcg ctatgtggga aaggtggaga tacttttata tatttgatg ggactctgag gagtgcaac ctgtatata atgtcatcg tctgacttt ttatccga gagatccatg caatgatctc ttgtgtctt ctctgtcaag attgcacagt tgtacttgaa tctggcatgt gttgacgaaa ctggtgcccc agcagatcaa aggtgggaaa tacgtcagca gtggggctaa aaccagcgg ctagaagccc tacagctgcc ttccggccagg aagtggagat ggtgtgggccc ctcccgccg gccccctggg tcccagtggt tgcgtgtgtg tgcgtttgtc ctctgtgcc atctgccccg gctgtgtgaa ttcaagacag ggcagtgtag cactaggcag gtgtgaggag ccctgctgag gtcactgtgg ggcacgggtg ccacacggct gtcatttttc acctggtcat tctgtgacca ccaccccc cctcacccg ctcccagggt gcccgggagc tgcaggtggg gatggctttg tcccttgctc ctgctccccg tgggacctgg gaccttaag cgttgcaagt tcttgatttg gacagaggtg tggggccttc caggccgtta catacctct gccaatctc taactctctg agactgcgag gatctccagg cagggttctc ccctctggag tctgaccaat tacttcattt tgcttcaaat ggccaattgt gcagagggac aaagccacag ccacactctt caacggttac caaactgttt ttggaaattc acaccaaggt cgggcccact gcaggcagct ggcacagcgt gggcgagggt gctgtggaac ggtccccga actgtcagac atgtttgatt ttagcgttcc cttgttctt caaatcaggt gcccaataa gtgatcagca cagctgcttc caaataggag aaaccataaa ataggatgaa aatcaagtaa aatgcaaga tgtccacact gttttaaaact tgacctgat gaaaatgtga gcactgttag cagatgccta tgggagagga aaagcgtatc tgaaaatggt ccaggacagg aggatgaaat gagatcccag agtccctaca cctgaatgaa ttatacatgt gccttaccag gtgagtgttc ttctgaagat aaaaaactct agtcccttta aacgttttgc cctggcggtt cctaagtagt aaaaggtttt taagtcttcg aacagtctcc tttcatgact ttaacaggat tctgccccct gaggtgtaat tttttgttc tattttttc cactactcc acagccaaca tcacgaggtg taatttttaa ttgtacaga actgttacca aaaaacaact gtcagtttta ttgagatggg aaaaatgtaa acctattttt attacttaag actttatggg agagattaga cactggaggt ttttaacaga acgtgtattt attaatgttc aaacacatgg aattacaaat gagaagagtc tacaataaat taagattttt gaattgtac ttctgcggtg ctggtttttc tccacaaa cccccccc tcccctgccc caggttgccc gtggaaggga cgggtttacgg acgtgcagct gagctgtccg tgtcccatgc tccctcagcc agtggaacgt gccggaactt ttgttccatt ccttagtagg cctgcccacag cctagatggg cagtttttgt ctttcaccaa atttgaggac tttttttt tgccattatt tcttcagttt tcttttcttg cactgatctt tctcctctcc tctgtgact ccagtgactc agacgttaga cctcttgatg ttttccact ggtccctgag gctctgttc MAPPPPPVLP VLLILAAAA LPAMGLRAAA WEPVPVGGTR AFALRPGCTY AVGAACTPRA P PRELLDVGRD GRLAGRRRV GAGRPLPLQV RLVARSAFTA LSRRLRARTH LPGCGARARL CGTGARLCGA LCFVPVGGCA AQHSALAAP TTLPACRCP RPRLPCPRP ICLPPGGSVR LRLLCALRRA AGAVRVGIAL EAATAGTSPA SPSPSPPLPP NLPEARAGPA RRARRGTSGR GSLKFFMPNY QVALFENEP GTLILQLHAH YTIEGEERV SYMEGLFDE RSRGYFRIDS ATGAVSTDV LDRKETHV LRVKAVDYST PPSATTYIT VLKDTNDHS PVFEQSEYRE RVRENLEVG EVLITRASDR DSEINANLRY RVLGAWDFV QINESSGVVS TRAVLDREEA AEYQLLVEAN DQGRNPGLS ATATVYIEVE DENDNYPQFS EQNVVQVPE DVGINTAVLR | Homo sapiens |
|-----|-------|--|---|--------------|

VQATDRDQGG NAAIHYSILS GNVAGQFYIH SLSGILDVIN PLDFEDVQKY SLSIKAQDGG
RPPLINSSGV VSVQVLDVND NEPIFVSSPF QATVLENVPL GYPVHIQAV DADSGENARL
HYRLVDAST FLGGSSAGPK NPAPTDPFPF QIHNSGMIT VCAELDREEV EHSYFGVEAV
DHGSPPMSS TSVSITVLDV NDNDPVFTQP TYELRINEDA ACGSSVLTQ ARDRANSVI
TYQLTGGNTR NREALSSQSG GGLITLALPL DYKQEQQYVL AVTASDGTRS HTAHLINVT
DANTHRPVFQ SSHYTVSVE DRPVGTSIAT LSANDEDTE NARTYVIQD PVQFRIDPD
SGTMYTMEL DYENQVAYTL TIMAQNGIP QKSDTTLEI LILDANDNAP QFLWDFYQGS
IFEDAPPSTS ILQVSATDRD SGPNGRLLYT FQGGDDGDG FYIEPTSGVI RTQRDLREN
VAVYNLWALA VDRGSPTPLS ASVEIQVTIL DINDNAPMFE KDELELFVEE NNPVGSVAVK
IRANDPDEP NAQIMYQIVE GDMRHFQLD LINGDLRAMV ELDFEVREY VLVQATSAP
LVSRATVHIL LVDQNDNPPV LPDFQILENN YVTNKSNSFP TGVIGCIPAH DPVSDSLNY
TFVQGNELRL LLLDPATGEL QLSRDLNDR PLEALMEVSV SDGIHSVTAF CTLRVTIID
DMLTNSITVR LENMSQEKFL SPLLALFVEG VAAVLSTTKD DVFVENVQND TDVSSNILNV
TFSALLPGV RGQFFPSEDL QEQIYLNRTL LTTISTQRL PFDDNICLRE PCENYMKCVS
VLREDSSAPF LSSTTVLFRP IHPINGLRCR CPPGFTGDC ETEIDLCSYD PCGANGRCRS
REGGYTCECF EDTGEHCEV DARSGRANG VCKNGTCVN LLIGGFHCVC PPGEYERPYC
EVTTRSFPQ SEVTFRGLRQ RFHTTISLTF ATQERNGLLL YNGRNEKHD FIALEIVDEQ
VQLTFSAGET TTTVAPKVPVS GVSDGRWHSV QVQYNNKPNL CHLGLPHGPS GEKMAVTVTD
DCDDTMAVRF GKDIGNYSKA AQGTQSGKK SLDLTGPLL GGVPNLPEDE PVHNRQFVGC
MRNLSVDGKN VDMAGFIANN GTREGCAARR NFCDGRCCN GGTCVNRWNM YLCECLRFEG
GKNCEQAMPH POLFSGESV SWSDNLIIIS VPWYLGIMFR TRKEDSVLME ATSGGTSFR
LQILNNYLQF EVSHGSPSDVE SVMLSGLRVT DGEWHLLIE LKNVKEDSEM KHLVTMTLDY
GMDQNKADIG GMLPGLTVRS VVVGASEDK VSVRRGFRGC MQGVRMGGTP TNVATLNMNN
ALKVRVKDGC DVDDPCTSSP CPFNRSCHDA WEDYSCVCDK GYLGINCVDA CHLNPENMG
ACVRSPPSQ GYVCEGSPSH YGPYCNKLD LPCPRGWGN PVCGPCCHCAV SKGFDPCNK
TNGQCCKEN YKLLAQDTC LPCDCFPHS HSRTCMTATG QCACKPGVIG RQCNRCNPF
AEVTTLGCEV IYNGCPKAFE AGIWWPQTKF QPAAVPCPK GSVGNVHRHC SGEKWLPEE
LFNCTTISEV DLRAMNEKLS RNETQVDGAR ALQIVRAIRS ATQHTGTILFG NDVRTAYQLL
GHVLQHESWQ QGFDLAATQD ADFHEDVIHS GSALLAPATR AAWEQIQRSE GGTAQLLRL
EGYFSNVARN VRRTYLRPFV IVTANNILAV DIFDKENFTG ARVPREDTIH EEPFRELESS
VSFPADFFRP PEEKEGELLR PAGRRTPQT TRPGPTEERE APISRRRHP DDAGQFAVAL
VIIYRTLQGL LPERYDPRR SLRLPHRPII NTPMVSTIVY SEGAPLRPL ERPVLVEFAL
LEVEERTKV CVFWNHS LAV GGTGWSARG CELLSNRTH VACQSHTAS FAVLMDISRR
ENGEVLPLKI VTYAAVSLSL AALLVAFVLL SILVRLRSNL HSIKHLAVA LFLSQLVFI
GINQTEPFL CTVAAILLHY IYMSTFAWTL VESLHVYRML TEVRNIDTGP MRFYVVGWG
IPAIVTGLAV GLDPQGYGNP DFCWLSLQDT LIWSFAGPIG AVIINTVTS VLSAKVSCQR
KHYYGKGI VSLRLTAFL LLLISATWLL LHLSDSATR ATLLTSLNC NTFFGDPM LRTDLGESTA
HCVLNQEVK HLKGVLGGRK LHLEDSTATR GLLAVNRNLC SEHYLEAIFS GLQGFVLLF
SLDSIVRDEG IQKLGVSGL VRGSHGEDA SLMPCKDP PGHSDSDSE LSLDEQSSSY
ASSHSSSED DGVGAEEKWD PARGAVHSTP KGDVANHVHP AGWPQSLAE SDEDPGKPK
RLKVETKVS ELHREEQSGH RGEYPPQES GGAARLASSQ PPEQRKGILK NKVTYPPPLT

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|-----|-------|----------------------------|-------------|--|-----------------|
| 445 | 74514 | 5-HT5A Receptor | NM_024012 | <p>LTEQTLKGRLL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPGREPGRD HLNQVAMNVR</p> <p>TGSAQADGSD SEKP</p> <p>atggatttac cagtgaaact aacctcttt tccctctcca cccctctccc ttgtgagacc A</p> <p>aaccacagcc tcggaaaga cgacctgcgc ccagctcgc cctgctctc ggtcttcgga</p> <p>gtgcttattc tcacctgtct gggtttctg gtggcgga cgttgccctg gaacctgctg</p> <p>gtgctggcga ccatactccg tgtaacgacc ttccacgcg tgccccacaa cctggtggca</p> <p>tccatggcgg tctcggtatg cctggtggcc gcgtggtca tgccgctgag cctggtgcat</p> <p>gagctgtccg ggccgcgtg gcagctaggt cggaggtgtg gccagctttg gatcgcgctgc</p> <p>gagtgctttt gctgcacggc cagcatctgg aacgtgacgg ccatagcctt ggaccgctac</p> <p>tggtccatca cgcgccacat ggaatacacg ctccgcacc gcaagtgggt ctccaacgtc</p> <p>atgatcgccg tcacctgggc actctccgt gtcattcttc tggcccgct gctttttggc</p> <p>tggtggagaga cgtactctga ggccagcgag gagtgcagg taagccgga gccctctac</p> <p>gccgtgttct ccaccgtagg cgccttctac ctgccgtct gtgtggtgt ctctgtgtac</p> <p>tggaagatct acaaggctgc caagttccgc gtgggtctca ggaagaccaa tagcgtctca</p> <p>cccatatccg aagctgtgga ggtgaaggac tctgccaaac agccccagat ggtgttcacg</p> <p>gtccgccacg ccacggtcac ctccagcca gaagggga cgtggcgga gcagaaggag</p> <p>cagcggcgcc cctcatggt ggcatcttc attggcgtg tcgtgctctg ctggatcccc</p> <p>ttctttctca ccgagctcat cagtccttc tgctcctgt acatcccg catctggaaa</p> <p>agcatcttcc tgtggttggt ctactccaa tcttcttta acccctgat ctatacggt</p> <p>ttcaacaaga actacaacag cgccttcaag aactctttt ctaggcaaca ctga</p> <p>MDLPVNLTSF SLSTSPLET NLSLKGDDLR PSSLLSVFG VLILTLGL VAATFAWNLL P</p> <p>VLATILRVRT FHRVPHNLVA SMAVSDVLA ALMPLSLVH ELSGRRWQLG RRLCQLWIAC</p> <p>DVLCCTASIW NVTALDRY WSITRMEYT LRTRKCVSNV MIALTWALSA VISLAPLFG</p> <p>WGETYSEGSE ECQVSREPSY AVFSTVGAFY LPLCVLFVY WKIYKAER VGSRTNSVS</p> <p>PISEAVEKID SAKQPQMVFT VRHATVTFQP EGDWREQKE QRAALMVGIL IGVFVLCWIP</p> <p>FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFFNPLIYA FNKNYNSAEK NFFSRQH</p> <p>gtaatgcaga gataataaa cttcttaggt ccataggtct tataataatt taataaccta A</p> <p>aacatgggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc</p> <p>aaactttcaa gttagatttt attgctttga tgagtggctt taaatatgaa aagtcttgc</p> <p>tgtgaaggcc aatccttttc ccgtggactg ggatctatag aaatacagaa atgtgcccag</p> <p>gggttcatct ccctaataac catcattcac atttctaac ctccctaata accagccacc</p> <p>atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt</p> <p>cagtggagtt ggttgcaacc tgatgctaag gatgtcaaa tggtctcggc ctctgttccc</p> <p>agccagtaag taattccctg gcctcggcc ataccctta atcttggta cgtgattatg</p> <p>acaggcagac agcacagtaa ataacactat attataagaa aacccaaagc atatgtatca</p> <p>atggtatatata cccaacagca tccataggaat ggagagctgt tagcaaggcc ctccaatgtg</p> <p>aaggtcaaca cagtcactgt gatgcgtgta ttctcatttt gtaaaagcatg atctctgtgtg</p> <p>gtcattttta tcttcctaac ttattggaaa agtctcctgt ttgtggggcc cgccccgtgt</p> <p>cacagccaga ctgactcagt ttccctggga ggtcccgctc gagcccgctc ttccctccc</p> <p>tctgcccgcg ccagccctc gcccacccct cggcgccgcg acatctgctt gctcagctcc</p> <p>agacggcgcc cggacccccg ggcgcgggat ccagccagggt gggagccccg cagatgaggt</p> | Homo sapiens |
| 446 | 74514 | 5-HT5A Receptor | NP_076917.1 | <p>MDLPVNLTSF SLSTSPLET NLSLKGDDLR PSSLLSVFG VLILTLGL VAATFAWNLL P</p> <p>VLATILRVRT FHRVPHNLVA SMAVSDVLA ALMPLSLVH ELSGRRWQLG RRLCQLWIAC</p> <p>DVLCCTASIW NVTALDRY WSITRMEYT LRTRKCVSNV MIALTWALSA VISLAPLFG</p> <p>WGETYSEGSE ECQVSREPSY AVFSTVGAFY LPLCVLFVY WKIYKAER VGSRTNSVS</p> <p>PISEAVEKID SAKQPQMVFT VRHATVTFQP EGDWREQKE QRAALMVGIL IGVFVLCWIP</p> <p>FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFFNPLIYA FNKNYNSAEK NFFSRQH</p> <p>gtaatgcaga gataataaa cttcttaggt ccataggtct tataataatt taataaccta A</p> <p>aacatgggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc</p> <p>aaactttcaa gttagatttt attgctttga tgagtggctt taaatatgaa aagtcttgc</p> <p>tgtgaaggcc aatccttttc ccgtggactg ggatctatag aaatacagaa atgtgcccag</p> <p>gggttcatct ccctaataac catcattcac atttctaac ctccctaata accagccacc</p> <p>atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt</p> <p>cagtggagtt ggttgcaacc tgatgctaag gatgtcaaa tggtctcggc ctctgttccc</p> <p>agccagtaag taattccctg gcctcggcc ataccctta atcttggta cgtgattatg</p> <p>acaggcagac agcacagtaa ataacactat attataagaa aacccaaagc atatgtatca</p> <p>atggtatatata cccaacagca tccataggaat ggagagctgt tagcaaggcc ctccaatgtg</p> <p>aaggtcaaca cagtcactgt gatgcgtgta ttctcatttt gtaaaagcatg atctctgtgtg</p> <p>gtcattttta tcttcctaac ttattggaaa agtctcctgt ttgtggggcc cgccccgtgt</p> <p>cacagccaga ctgactcagt ttccctggga ggtcccgctc gagcccgctc ttccctccc</p> <p>tctgcccgcg ccagccctc gcccacccct cggcgccgcg acatctgctt gctcagctcc</p> <p>agacggcgcc cggacccccg ggcgcgggat ccagccagggt gggagccccg cagatgaggt</p> | Homo sapiens |
| 447 | 81765 | Thromboxane A2 Receptor | NM_001060 | <p>gtaatgcaga gataataaa cttcttaggt ccataggtct tataataatt taataaccta A</p> <p>aacatgggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc</p> <p>aaactttcaa gttagatttt attgctttga tgagtggctt taaatatgaa aagtcttgc</p> <p>tgtgaaggcc aatccttttc ccgtggactg ggatctatag aaatacagaa atgtgcccag</p> <p>gggttcatct ccctaataac catcattcac atttctaac ctccctaata accagccacc</p> <p>atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt</p> <p>cagtggagtt ggttgcaacc tgatgctaag gatgtcaaa tggtctcggc ctctgttccc</p> <p>agccagtaag taattccctg gcctcggcc ataccctta atcttggta cgtgattatg</p> <p>acaggcagac agcacagtaa ataacactat attataagaa aacccaaagc atatgtatca</p> <p>atggtatatata cccaacagca tccataggaat ggagagctgt tagcaaggcc ctccaatgtg</p> <p>aaggtcaaca cagtcactgt gatgcgtgta ttctcatttt gtaaaagcatg atctctgtgtg</p> <p>gtcattttta tcttcctaac ttattggaaa agtctcctgt ttgtggggcc cgccccgtgt</p> <p>cacagccaga ctgactcagt ttccctggga ggtcccgctc gagcccgctc ttccctccc</p> <p>tctgcccgcg ccagccctc gcccacccct cggcgccgcg acatctgctt gctcagctcc</p> <p>agacggcgcc cggacccccg ggcgcgggat ccagccagggt gggagccccg cagatgaggt</p> | Homo sapiens |

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|-----|-------|----------------------------|-------------|--|-----------------|
| 448 | 81765 | Thromboxane A2 Receptor | NP_001051.1 | <p> ctctgaaggt gtgctgaac cagtccagc ctgacctgtc tgcagcatcg gectgatggg gtggtgactg atccctcagg gctccggagc catfgggccc aacggcagtt cctggggggc ctgtttccgg ccacaaaca ttacctgga ggagagacgg ctgctgcct cgcctgggtt cgcgcctcc ttctgctgg tggcctggc ctccacctg ctgacctga gctgctggc ggcgccggg caggggggtt cgcacacgg ctccctctc ctaccttcc tctggcgctt cgtccctacc gacttctgg ggctgctgtt gacctgacc atcgtggtt cccagcacgc cgcgtcttc gagtggcacg ccgtggacct tggctgctt ctctgctt tcatgggctt cgtcatgac ttcttcggc tgtcccgct gctgctggg gccgcatgg cctcagagcg ctacctgggt atcacccgc cttctcgcg ccgggggtc gctcgacg gccggcgctg ggccacgtg gggctggtt gggcgccgc gctggcgctg gctcgctgc cctgctggg cgtgggtgc tacacgtgc aataccggg gctcggtgc ttctgacgc tggcgccga gtccggggac gtggccttcg gctgctctt ctccatgctg ggcggcctt cggtcgggct gtccttctg ctgaacacgg tcagctggc cacctgtgc cactctacc acgggcagga ggcgccccag cagctccc gggactcga ggtggagatg atggctcagc tctggggat catggtgtg gccagctgt gttggctgc cttctgttc ttcatggccc agacagtgt gcgaacccg cctgcatga gcccgcgg gacgtgttc cgcaccacgg agaaggagct gtcatctac ttgcgctgg ccacctggaa ccagatcctg gacctggg tgtatctct gtcccgccg gccgtgctc ggcgtctcca cctcgctc agcacccggc ccaggtcgt gtccctccag cccagctca cgcagcgtc cgggctgcag taggaagtgg acagagcgcc cctcccgcc cttcccgcg agccttggc cctcgagca gccatctgc ctgttctgag gattcagggg ctgggggtgc tggatggaca gtgggcatca gcagcagggt tttgggttga cccaatcca acccggggac ccccaactc tccctgatcc tttaccaag cactctcct tctcgggcc ctttttcca tccagagctc ccaccttc tctgctccc tcccaacccc aggaagggca tgcagacatt ggaagagggt ctgcatgct tattttttt tttagacgga gtcttgcct tccccccagg ctggagtga gtggcgcaat ctgagctcac tgcaacctcc acctccggg ttcaagcgt tctcctgct cagcctcctg agtagctgg actataggcg cgcgccacca cgcgggcta attttctgt ttttagtaga gacgggggtt caccgtgtg gccaggctg tcttgaactc ctgacctcag gtgattcac agcctcagc tcccaagtg ctgggatcac agcatgac caccacact ggcattttt tttttttt tagacggagt ctcactctgt ggccagctt ggaatacgt ggcacgatct cggctcactg caacctccgc ctcccggtt caagcattc tctgctcga gccctccag cagctgggat tacagcgta agccactgc cccggcctt catgctctt gacctgaat ttgacctact tgcggggta cagttgcttc ctttgaacc tccaacagg aggcctctg ccagaaagga ttgaatgtga aacgggggca ccccttttc ttgcaaat atactctgc ctttggttt at SSFLTFLCGL VLTDFLGLV TGTIVVSOHA ALFEMHADV GCRLCRMV VMIFGLSPL ILGAAMASER YLGTIRPFSR PAVASQRAW ATVLVWAA LALGLLPLG VGRYTVQYPG SWCFLTIGAE YGDVAFGLF SMLGLSVGL SFLLNVSVA TLCHVYHQE AAQQRPRPDE VEMMAQLLGI MVAASVCWLP LLVFIQTVL RNPMPSPAG QLSRTTEKEL LIYLRVATWN QILDWPVYIL FRAVLRLQ PRLSTRPRSL SLQPQLQRS GLQ </p> | Homo sapiens |
|-----|-------|----------------------------|-------------|--|-----------------|

| | | | | | |
|-----|--------|---|---------------|--|--------------|
| 449 | 98519 | Chemokine (C motif) XC Receptor 1 (CXCR1) | C NM_005283 | atggagtcct caggcaaccc agagagcacc accctttttt actatgacct tcagagccag A ccgtgtgaga accaggcctg ggtctttgct accctggcca ccactgtcct gtactgcctg gtgtttctcc tcagctagt gggeaacagc ctggctctgt ggtcctggt gaagtatgag agcctggagt cctcaacaa catcttcac ctcaacctgt gctctcaga cctggtgttc gctgtgtgt tgcctgtgtg gatctccca taccactggg gctgggtgct gggagacttc ctctgcaac tctcaatat gatctctcc atcagcctct acagcagcat cttctcctg accatcatga ccatccaccg ctactgtcg gtatgagcc cctctccac cctgcgctc ccacacctcc gctgcgggtg gctgtgacc atggtgtgt ggttagccag catcctgtcc tccatctcg acacatctt ccacaagtg gcttctcgg gctgtgatta ttccgaactc acgtgttacc tcacctcgt ctaccagcac aacctttct tctgtgtc cctgggatt atcctgttct gtaactgga gatactcagg acctgttcc gctcagctc caagcggcgc caccgacgg tcaagctcat ctccgcatc gtgtggcct acctctcag ctggggtccc tacaacttca cctgtttct gcagacgtg ttccgaccc agatcatcc gagctggag gcaaacagc agtagaata cgcctgctc atctgcgcga acctgcctt ctccactgc tgcttaacc cgtgtctcta tgtctcgtg ggggtcaagt tccgacaca cctgaacat gtctccggc agttctggt ctgcggctg caggcaccga gcccagctc gateccccac tcccctggtg ccttcgcta tgaggcgc ccttctact ga | Homo sapiens |
| 450 | 98519 | Chemokine (C motif) XC Receptor 1 (CXCR1) | C NP_005274.1 | MESSGNBEST TFFYDIQSQ PCENQAWFA TLATTVLYCL VFLLSILVNS LVLWLVKYE P SLESLTNIFI INLCISLIVF ACLLPWISP YHWGWLIGDF LCKLNMIFS ISLYSSIFFL TIMTIHRYIS VWSPLSTLRV PTLRCRLVT MAVWVASILS SILDTIFHKV LSSGCDYSEL TWYLSVYQH NLFFLSLGI ILFCYVEILR IFRNSKRR HRTVKLIFAI VVAYFLSWG P YNFTLFQLTL FRTQILRSC AKQOLEYALL ICRNLAFSHC CFNPVLVYFV GVKFRHLKH VLRFQWFCRL QAPSPASIPH SPGAFAYEGA SFY | Homo sapiens |
| 451 | 130108 | G Protein-Coupled Receptor GPR75 | NM_006794 | gcgatggcga tgatgcctct agtcctgcat catccagagc ggcaggcgag ctgggggtccg A gactgcgaga tggaggaggg gcgcgtgcg gcaccggca ggttatctg tcttgggct ctttgtcac atattgtca tctgtagct gagccctga ctactgagt attttgggg agcagaagaa ggagacatt ctctcgaaa atgaactcaa caggccacct tcaggatgcc cccaatgcca cctcgtcca tgtcctcac tcacaggag gaaacagcac ctctctcag gagggtctc agtatctcat ccacacagcc acctgggtga cctgtacttt tctactggcg gtcatcttct gcctgggttc ctatggcaac ttcatgtct tctgtcctt ctctgatcca gccttcagga aattcagaac caacttgat ttcatgatcc tgaacctgtc ctctgtgac ctcttcatt gtggagtgc agccccatg ttacaccttg tgtattctt cagctcagcc agtagtacc cggatgcttt ctgcttcaact ttccatctca ccagttcagg ctctcatc atgtctctga agacagtggc agtgatgcc ctgcacggc tccggatgggt gttgggga cagcctaate gcacggctc ctttccctgc accgtactc tcacctgct tctctggcc accagtcca ccttggccc cttggctacc ttgaaaacca gcaagtccca cctctgtctt cccatgtcca gtctgattgc tggaaaaggg aagccattt tgcctctcta tgtgtgagac ttcaccttct gtgtgtctgt ggtctctgtc tcttacatca tgattgtctca gacctggg aagaacgctc aagtcagaaa gtgccccct gtaatacag tcgatgtctc cagaccag ccttcatgg ggtcctgt gcaggagggt ggagatcca tccagtgtc catgccgct ctgtatagga accagaatta caacaaactg cagcacyttc agaccctgg atataccaag | Homo sapiens |

452

130108 G Protein-
Coupled
Receptor
GPR75

NP_006785.1

Homo
sapiens

agtcaccaacc aactggtgac ccctgcagca agccgactcc agctcgtatc agccatcaac
ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc
ctggtgtgct gtcttccact ggggatttcc ttggtacagg tggttctctc cagcaatggg
agcttcattc ttaccagtt tgaattgitt ggatttactc ttatatattt caagtcagga
ttaaaccctt ttatatattc tcggaacagt gcagggtcga gaaggaaagt gctctggtgc
ctccaatata taggcctggg ttttttctgc tgcaacaaa agactcgact tcgagccatg
ggaaaaggga acctcgagt caacagaaac aatctctccc atcatgaaac aaactctgcc
tacatgttat ctccaaagcc acagaagaaa ttgttgacc aggtctgtgg cccaagtcat
tcaaaagaaa gtatggtgag tcccaagatc ttgttgacc atcaacactg tggtcagagc
agctcgacc ccataacac tcggtattgaa ccttactaca gcattctata cagcagccct
tcccaggagg agagcagccc atgtaactta tcacaccact aatgacttag tgcaggaata tgacagcact
tcataatatt ccatgcatta tccaccactt cccctccgtt taaagtcag gaggtatag gatcttatgt
tcagccaagc agattccagt cccctccgtt taaagtcag gaggtatag gatcttatgt
aaacagtttt tgtttctgat agtaatggac tttattctaa cttgagatca gtggcggatc
aaaacctaca agattcaact gaaaagtgg cagttatggt tttcttctcat ctgatgtgtc
agtatctgtt gatttgctt gtatgtgtt gacatcttaa gatttgatgt gaaagtttta
gattttttac cctg

453

133117 G Protein-
Coupled
Receptor
RAIG1

NM_003979

Homo
sapiens

ataacacagcat gaagtgcctg gaaactggaa taggcgtgtc ctctccctc cgcctttata
tccctgtccc tctgtcacc cctcgctcgt tccctccctc cggcgagggc cgcctttata
acaactgctc agatgcagag ggcgggatat cgtgtccaaag ttcacggcca cactgaggag
ctcgctgct gccctcttgc gcgcgggaag cagcaacaa cgcctttata
actagggtcc agaattgcta caacagtccc tgatggttgc cgcaatggcc agccttggc
gtactacaga ctttgtgata aggtgaagc tggtggtcgc cgccttccgc tctgcaaggt
agccggggtt gtgacctcg tggcctcat gctcaactc cgccttccgc tctgcaaggt
gcaggactcc acagcgcaa aatgctgcc tactcagttt ccttccctc tgggtgtgtt
gggcatcttt ggcctacact tgccttcat catcgactg gacgggagca caggggccac
acgcttcttc ccttttgga tcccttttt cctgtcttc tccctgttc tggtctatgc
tgtcagtcg accaagctc tccgggggag gaagccctt tccctgttc tggtctatgc
tctggccgtg ggcctcagcc tagtccagga tgttatcgct attgaatata ttgtcttggg
catgaatagg accaagctca atgtctttt tgagctttcc gctcctcgtc gcaatgaaga
ctttgtctc ctgctacact acgtctctt cttgatggcg ctgaccttc tcatgtctc
cttcaccttc tgtgttctt tcacgggctg gaagagacat gggggccaca tctacctc

Homo
sapiensHomo
sapiens

| | | | | |
|-----|---|-------------|---|---|
| 454 | 133117 G Protein- Coupled Receptor RAIG1 | NP_003970.1 | gatgtctctc tccattggcca tctgggtggc ctggataacc ctgtctatgc tctctgactt tgaccgcagg tgggatgaca ccatctctcag ctccgccttg gctgccaatg gctgggtgtt cctgttggt tatgttagtc ccgagttttg gctgctcaca aagcaacgaa accccatgga ttatctgtt gaggatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactctcaag aggaatacac tcaagttttt gaagagacag gggacagct ctatgcccc tattccacac attttcagct gcagaaccac cctcccaaa aggaattctc catccacgg gccacgctt ggcgagccc ttacaaagac tatgaagtaa agaaagaggg cagctaaatc tgtctctgaa agtgggacaa atgcagccgg gcggcagatc tagcgggagc tcaaagggat gtgggcgaaa tcttgagctt tctgagaaaa ctgtacaaga cactacggga acagtttgcc tccctccag cctcaaccac aattcttcca tctgggggct gatctgggct agtaagactc cagttcttag aggcgtgta gtattttttt tttttgtct catccttgg atacttctt taagtgggag tctcaggcaa ctcaagtta gaccttact cttttgttt gtttttttaa acaggatctt gctctgtcac ccaggcttga gtgcagtgtt gcgacacag cccagtgac cctcgaccac ctgtgtcaca gcaatccctc catctccatc tcccaaatg ctgggatgac aggcgtgagc cacagctccc agcctaggcc cttaactctg ctgttatttt ccatggacta aggtctggt catctgagct cagctggct cacaagctc taggggctg ctcctctaac tcacagtgg tttgtgagg ctctgtggcc cagagcagac ctgcatact gagcaaaat agcaaaagcc tctctcagcc cactggcctg aatctacat ggaagccaac ttgtggcac ccccgctccc caaccttct tgcctgggta ggagaggta aagatcacc taaatctact catctctcta gtctgctc acattggcc tcagcagctc ccagcacca aatcacaggt caccctctc ttctgcat ttcccaaac ttgtgtcaa tccgagatc taatctccc ctacgctctg ccaggaattc ttacagact cactagcaca agcccggtt ctccttgca ggagaattg tagatcattc tcacttcaa ttctggggc tgatacttct ctcatcttg acccaacct ctgtaaatag attacccga ttacggctg cattctgtaa gtgggcatg tctcctaag gaggagtgt cattgtataa taagttatt acctgagat gcaataaaga tgtggtgcc actcttctat ggtggtgga gcaaaaaaa aaaaa RRKMLPTQFL FLGLVGLGIFG LTFAFIIGLD GSTGPTREFL FGILFSICFS CLLAHAVSLT KLVGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLTWNR NTNNVSELSA PRNEDFVLL LTYVLFIMAL TFLMSSFTFC GSFTGWKRHG AHYILTMLLS IAIWVAWITL LMLPDFDRRW DDTILSSALA ANGWVFLIAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQGE ETGDTLYAPY STHFQLQNP PQKEFSIPRA HAWSPYKDY EVKKEGS atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc A acgggcatca cagcttctc catgccacg tggcagctgg cactgtgggc accagcctac ctggccctgg tctgtgtggc cgtgacgggt aatgccatcg tcatctggat catcctggcc catcgaggga tgcgcacagt caccacactac ttcatctgta atctggcgt ggtgacctc tgcatggctg ctttcaatgc cgccttcaac tttgtctatg ccagccaca catctggtac tttggccgtg cttctgcta cttccagaac ctcttccca tcacagccat gttgtcagc atctactcca tgaccgcat tggcgccgac aggtacatgg ccatcgcca ccccttccag cctcggttt cagctccag caccagggc gttattgtg gcatctggct ggtggctctc gccctggct cccctcagt cttctactec accgtcacca tggaccagg tggccaccaag | ILVCKVQDSN P TSVAFMLTLP FGILFSICFS NNVSELSA IAIWVAWITL DAFCKPQLVK HAWSPYKDY ctggccctga cactgtgggc tcatctggat atctggcgt ccagccaca tcacagccat ccatcgcca gcatctggct tggaccagg |
| 455 | 152198 Tachykinin Receptor 2 | NM_001057 | | |

456 152198 Tachykinin Receptor 2 NP_001048.1 Homo sapiens

tgctgtgtgg cctggcccgag agacagcggg ggcaagacgc tctctctgta ccactctgtg
 gtgatcgccc tcatctactt cctgcgctc gcggtgatgt ttgtagccta caggtcatc
 ggcctcagc tctggaggcg cgcagtggcc ggacatcagg cgaacggtgc caactccgc
 catctgcagg ccaagaagaa gtttgtgaag accatgggtgc tgggtgtgtc gacgtttgc
 atctgtggtc tgccctacca cctctacttc atctgggca gttccaggga ggacatctac
 tgccacaagt tcatccagca agtctacctg gactctctct ggttggtccat gagctctacc
 atgtacaatc ccatcatcta ctgctgtctc aaccacaggt ttgcctctgg gttccggctt
 gcttccgct gctgcccag ggtcacccc accaaggaag ataagctcga gctgactccc
 acgacctccc tctccacag agtcaacagg tgtcacacta aggagacttt gttcatggct
 gggaacacag cccctccga ggtaccagt ggggaggcgg ggcgtcccca ggatggatca
 gggctatgggt ttggtgatgg ttgtcttgc cccacaaaa ctcatgttga aattga
 152198.1 MGTCDIVTEA NISSGESNT TGITAFSMPs WQLALWAPAY LAIVLVAVTG NAIVIIILA P
 HRRMRTVINY FIVNLALADL CMAAFNAEN FVYASHNIWY FGRAFCYFQN LFPITAMFVS
 IYSMTAJAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCFSY TVTMDQGATK
 CVWAWPEDSG GKTLLYHLV VIALIYFLPL AMFVAYSVI GLTLMRRAPV GHQAHGANLR
 HLQAKKFKVK TMVLVLTFA ICWLEPYHLY ILGSFQEDII CHKFIQQVYL ALFWLAMSSST
 MYNPIIXCCL NHRFRSGFRL AFRCPPWVTP TKEDKLELTP TTSLSRVRN CHTKETLFMA
 GDTAPSEATS GEAGRPQDGS GLWFGYGLLA PKTHVEI

457 152201 Thyrotropin Receptor NM_000369 Homo sapiens

ccgctcccg gtctctctt ggctgggggt aaccgaggt gcagagctga gaatgagcg A
 atttcggagg atggagaaat agcccagat cccgtggaaa atgagccgg cggacttgct
 gcagctgggt ctgctgctcg acctgcccag ggaactgggc ggaatgggt gttcgtctcc
 accctgcgag tgccatcagg aggagactt cagagtcacc tgcaaggata ttcaacgcac
 cccagctta ccgccagta ccgagactct gaagcttatt gagactcacc tgagaactat
 tccaaagtcat gcatcttcta atctgcccac tatttcaga atctacgtat ctatagatgt
 gactctgcag cagctggaat cacactcctt ctacaatttg agtaaaagtga ctcacataga
 aattcggaa accaggaaat taactacat agacctgat gccctcaaa agctccccct
 cctaaagttc ctggcattt tcaacactgg acttaaaatg tccctgacc tgaccaaagt
 ttattccact gatatattct ttatactga aattacagac aaccttaca tgacttcaat
 ccctgtgaat gcttttcagg gactatgcaa tgaacacttg acactgaagc tgtacaacaa
 tggctttact tcagtccaa gatatgctt caatgggaca agctgggat ctgtttacct
 aaacaagaat aaataacctga cagttattga caaagatgca ttggaggag tatacagtg
 accaagcttg ctggacgtgt ctcaaacacag tgtcactgc ctctccatcca aaggcctgga
 gcactgaag gaactgatag caagaaacac ctggactctt aagaaacttc cactttcctt
 gactttcctt cactcacac gggctgacct ttctacca agccactgct gtgcttttaa
 gaatcagaag aaatcagag gaatccttga gtccttgatg tgtaaatgaga gcagtatga
 gagcttgcc cagagaaaat ctgtgaatgc cttgaatagc cccctccacc aggaatatga
 agagaatctg ggtgacagca ttggtgggta caaggaagaag tccaagtctc aggtactca
 taacaacgct cattattacg tcttcttga agaacaagag gatgagatca ttgggtttgg
 ccaggagctc aaaaacccc aggaagagac tctacaagct ttgacagcc attatgacta
 caccatatgt ggggacagtg aagacatggt gtgtacccc aagtcgatg agttcaacc
 gtgtgaagac ataattgggt acaagttcctt gagaattgtg gtgtgggttcg ttagtctgct

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|-----|--------|--------------------------------|-------------|--|-----------------|
| 458 | 152201 | Thyrotropin Receptor | NP_000360.1 | <p> ggctctcctg ggcaatgtct ttgtctctgt tattctctc accagccact acaaaactgaa cgccccgc ttctcatgt gcaacctggc ctttgccgat ttctgcatgg gcatgtacct gtctctcatc gcctctgtag acctctaac tcaactgag tactacaacc atgccatcga ctggcagaca ggccttggtt gcaacaggc tggttcttc actgtctttg caagcaggtt atcggtgat acgtgacgg tcatccctt ggagcctgg tatgccatca ccttcgccat gcgcctggac cggaagatcc gcctcaggca cgcattggcc atcatggtt ggggctgggt ttgtgcttc cttctgccc tggctcttt ggtgggata agtagctatg ccaagtcag tatctgctg cccatggaca cggagacccc tctgctctg gcataattg ttttcttct gacgtcaac atagttgctt tcgtcatcgt ctgctgctgt catgtgaaga tctacatcac agtcggaat ccgcagtaca acccaggga caaagatacc aaattggca agaggtggc tgtgtgatc ttaccgact tcatagcatt ggcctccatc tcattctatg cctgtcagc aatctgaac agcctctca tcactgttag caactccaaa atcttgctgg tactcttcta tccacttaac tcctgtgcca atccattct ctatgctatt ttaccaagg ccttccagag ggatgtgtc atctactca gcaagtttgg catctgtaaa cgccaggctc aggcataccg ggggcagag gtctctcaa agaacagcac tgatattcaa gttcaaaagg ttaccacaga catgagcag ggtctccaca acatggaaga tgcattgaa ctgattgaaa actcccatc aaccctaaag aagcaaggcc aaatctcaga agagtatatg caaacggttt tgtaagttaa cactacacta ctcaaatgg taggggaact taaaaataa tagttctctg aatagcatt ccaatcccat </p> | Homo sapiens |
| 459 | 152245 | C-C Chemokine Receptor 2 | NM_000648 | <p> MRPADLLQLV LLLDLPRDLG GMGSSPPCE CHQEDFRVT CKDIQIPSL PPSTQTLKLI P ETHRLTIPSH AFSNLPNISR IYVSIDVTIQ QLESHSFYNL SKVTHIEIRN TRNLTYIDPD ALKELPLLKF LGIENTGLKM FPDLTQVYST DIFFILEITD NPYMTSIPVN AFQGLCNETL TLKLYNNGFT SVQGYAFNGT KLDVLYLKN KYLTVIDKDA FGVSYGSPSL LDVSQTSVTA LPSKGLEHLK ELIARNTWTI KKLPLSLFL HLTRADLSYP SHCCAFKNQK KIRGILESLM CNESMSQSLR QRSVNALNS PLHQEYENL GDSIVGYKEK SKFQDTHNNA HYYFFEEQE DEIIGFGQEL KNPQEEITQA FDSHYDYTC GDSDEMVCPT KSDEFNPCEP IMGYKFLRIV VMFVSLIALL GNVFVLLILL TSHYKLVNPR FLMCNLAFAD FCMGMYLLLI ASVDLYTHSE YYNHAIDWQT GPGCNTAGFF TVFASELSVY TLTVTITLERW YAITFAMRLD RKIRLRHACA IMVGGWVCCF LLALLPLVGI SSYAKVSICL PMDTETPLAL AYIVFVTLN IVAFVIVCCC HVKIYITVRN PQYNPGDKDT KIAKRMVLI FTDFICMAPI SFYALSAILN KPLITVSNK ILLVLFYPLN SCANPFLYAI FTKAFQDVF ILLSKFGICK RQAQAYRGOR VPPKNSTDIQ VQKVTHDMRQ GLHNMEDVYE LIENSHLTPK KQGQISEYXN QTVL caggactgcc tgagacaaag cacaaagctga acagagaaag tggattgaac aaggacgcac A ttccccagta catccacaac atgctgtcca catctcgttc tcggtttatc agaaatacca acgagagcgg tgaagaagtc accacctttt ttgattatga ttacggtgct ccctgtcata aatgtgact gaagcaaat ggggcccac tcctcctcc gctctactcg ctggtgttca tctttggttt tgtgggcaac atgctggtcg tccatcttc aataaactgc aaaaagtga agtgtctgac tgacatttac ctgctcaacc tggccatctc tgatctgctt ttcttatta ctctcccat gttggctcac tctgctgcaa atgagtgggt ctttgggaat gcaatgtgca aattattcac agggctgtat cacatcggtt attttggcg aatcttcttc atcatcctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgctttaaaa gccaggacgg </p> | Homo sapiens |

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|-----|---------------------------------------|-------------|--|-----------------|
| 460 | 152245 C-C Chemokine Receptor 2 | NP_000639.1 | <p> tcaaccttgg ggtggtgaca agtgtgatca cctggttgggt ggctgtgttt gcttctgtcc caggaatcat ctttactaaa tgcagaaaag aagattctgt ttatgtctgt ggccttatt ttccacgagg atggaataat ttccacacaa taataggaa catttgggg cttgtctctgc cgtgtctcat catggtctatc tgctactcgg gaactctgaa aacctgctt cgtgtctcgaa acgagaagaa gaggcatagg gcagtgcagc tcatctcac ccatgatt gtttacttcc tcttctggac tccctataac attgtcattc tctgaacac cttccaggaa ttcttcggcc tgagtaactg tgaagacc agtcaactgg accaagccac gcagtgaca gagactcttg ggatgactca ctgctgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa ggtatctctc ggtgttcttc cgaagacaca tcaccaagcg cttctgcaaa caatgtccag tttctacag ggagacagtg gatggagtga cttcaacaaa cagccttcc actggggagc aggaagtctc ggtgtgttta taaacgagg agcagtttga ttgttgttta taaagggaga taacaatctg tatataacaa caaacttcaa ggtttgttg aacaatagaa acctgtaaaag caggtgccc a gaaacctcag ggtgtgtgt actaatagc actatgtcac ccaatgcata tccaacatgt gctcaggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagctcatc tcagctctcg aaaaatgcct cattaccttg tgcataacct cttttcttag tcttcataat ttcttctactc aatctctgat tctgtcaatg tcttgaatc aagggccagc tggaggtgaa gaagagaatg tgacaggcac agatgaatgg gagtggagg tagtggggtc agggctgaga ggagaaggag gtagacatga gcatggctga gctggacaa agacaaaagt gagcaaaagg ctcacgcatc cagccaggag atgatactgg tcttagacc catctgccac gtgtatttaa ccttgaaggg ttcaccagg ttcaggagagt ttgggaactg caataacctg ggagttttgg tggagtccga tgattctctt ttgcataagt gcatgacata tttttgcttt attacagttt atctatggca cccatgcacc ttacatttga aatctatgaa atatcatgct ccattgttca gatgcttctt aggccacatc cccctgtcta aaaaatcaga aaattttgt ttataaaga tgcattatct atgatgtct atatatatga tatgcaatat aaaatttag MLSTSRSRFI RNTNKGEEV TTFDDYDGA PCHKFDVKQI GAQLLPPLYS LVFIFGVGN P MLVLLILNC KKLKCLTDIY LLNLAISDLL FLITLPLWAH SAANEWVFGN AMCKLFTGLY HIGYFGGIEF IILLIDRYL AIVHAVFALK ARTVTFGVVT SVITWLAVF ASVPGIIFTK CQKEDSVVVC GPYFPRGWN FHTIMRNILG LVPLLLIMVT CYSGILKTL RCRNEKKRHR AVRVIPTMI VFLEWTPYN IVILINTFQE FFGLSNCEST SQLDQATQVT ETLGMTHCCI NP1IYAFVE KFRRYLSVFF RHITKRFCX QCPVFYRETV DGVSTSTNTPS TGEQVSAGL CAGAAATCCT CAGGTCACC AGAATGAAC ACCTTTTCTA AAATAAAGTC AAGCCAAGCT A GTCTACCCC AAAGAAAATC CTAGCAAGCA AAGGTGGCTT CCTTCTCTGAG GCCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGTGAA TAGGAAACC AAGTCAGAC ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGG ATCAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGG GTCCCAGGTG TGAAGCTGG GTTGAGGATC CATTATCTGA ATTTTCCACT CTATGGATGA TCATTTTAT TCTTTTCTT TTCTTGAATT TATTTCCATT TGTTTATTC TAAATTCCT GTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGGA AGGATTTGAC TTACAGCAG AGACTTCAGA AGGAGTCTC TCTAGGAGCA AATTGGGGG AATCCAGTG GAAGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGGACAA CAGGCACACA ATCTTTACTT ACTTTTCAG CTGCTTTGAG GT </p> | Homo sapiens |
| 461 | 152299 Interleukin- 8 Receptor A | IG5459 | <p> tcaaccttgg ggtggtgaca agtgtgatca cctggttgggt ggctgtgttt gcttctgtcc caggaatcat ctttactaaa tgcagaaaag aagattctgt ttatgtctgt ggccttatt ttccacgagg atggaataat ttccacacaa taataggaa catttgggg cttgtctctgc cgtgtctcat catggtctatc tgctactcgg gaactctgaa aacctgctt cgtgtctcgaa acgagaagaa gaggcatagg gcagtgcagc tcatctcac ccatgatt gtttacttcc tcttctggac tccctataac attgtcattc tctgaacac cttccaggaa ttcttcggcc tgagtaactg tgaagacc agtcaactgg accaagccac gcagtgaca gagactcttg ggatgactca ctgctgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa ggtatctctc ggtgttcttc cgaagacaca tcaccaagcg cttctgcaaa caatgtccag tttctacag ggagacagtg gatggagtga cttcaacaaa cagccttcc actggggagc aggaagtctc ggtgtgttta taaacgagg agcagtttga ttgttgttta taaagggaga taacaatctg tatataacaa caaacttcaa ggtttgttg aacaatagaa acctgtaaaag caggtgccc a gaaacctcag ggtgtgtgt actaatagc actatgtcac ccaatgcata tccaacatgt gctcaggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagctcatc tcagctctcg aaaaatgcct cattaccttg tgcataacct cttttcttag tcttcataat ttcttctactc aatctctgat tctgtcaatg tcttgaatc aagggccagc tggaggtgaa gaagagaatg tgacaggcac agatgaatgg gagtggagg tagtggggtc agggctgaga ggagaaggag gtagacatga gcatggctga gctggacaa agacaaaagt gagcaaaagg ctcacgcatc cagccaggag atgatactgg tcttagacc catctgccac gtgtatttaa ccttgaaggg ttcaccagg ttcaggagagt ttgggaactg caataacctg ggagttttgg tggagtccga tgattctctt ttgcataagt gcatgacata tttttgcttt attacagttt atctatggca cccatgcacc ttacatttga aatctatgaa atatcatgct ccattgttca gatgcttctt aggccacatc cccctgtcta aaaaatcaga aaattttgt ttataaaga tgcattatct atgatgtct atatatatga tatgcaatat aaaatttag MLSTSRSRFI RNTNKGEEV TTFDDYDGA PCHKFDVKQI GAQLLPPLYS LVFIFGVGN P MLVLLILNC KKLKCLTDIY LLNLAISDLL FLITLPLWAH SAANEWVFGN AMCKLFTGLY HIGYFGGIEF IILLIDRYL AIVHAVFALK ARTVTFGVVT SVITWLAVF ASVPGIIFTK CQKEDSVVVC GPYFPRGWN FHTIMRNILG LVPLLLIMVT CYSGILKTL RCRNEKKRHR AVRVIPTMI VFLEWTPYN IVILINTFQE FFGLSNCEST SQLDQATQVT ETLGMTHCCI NP1IYAFVE KFRRYLSVFF RHITKRFCX QCPVFYRETV DGVSTSTNTPS TGEQVSAGL CAGAAATCCT CAGGTCACC AGAATGAAC ACCTTTTCTA AAATAAAGTC AAGCCAAGCT A GTCTACCCC AAAGAAAATC CTAGCAAGCA AAGGTGGCTT CCTTCTCTGAG GCCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGTGAA TAGGAAACC AAGTCAGAC ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGG ATCAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGG GTCCCAGGTG TGAAGCTGG GTTGAGGATC CATTATCTGA ATTTTCCACT CTATGGATGA TCATTTTAT TCTTTTCTT TTCTTGAATT TATTTCCATT TGTTTATTC TAAATTCCT GTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGGA AGGATTTGAC TTACAGCAG AGACTTCAGA AGGAGTCTC TCTAGGAGCA AATTGGGGG AATCCAGTG GAAGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGGACAA CAGGCACACA ATCTTTACTT ACTTTTCAG CTGCTTTGAG GT </p> | Homo sapiens |

| 462 | 152299 Interleukin- 8 Receptor A | NM_000634 | Homo sapiens |
|-----|-------------------------------------|-------------|-------------------------|
| | agctgttaag | tcactctgat | ctctgactgc agctctact |
| | gcttcagta | gatcaaacca | ttgctgaac ttgaaggagac |
| | acagatgtgg | gattttgatg | atctaaattt cactgggatg |
| | cagccccgtg | atgctaga | ctgagacact caacagtat |
| | cctagtgttc | ctgctgagcc | tgctgggaaa ctccccgtg |
| | cagggtcgcc | cgctccgtca | ctgatgtcta cctgctgaac |
| | cttggccctg | acctggccca | tctggccgc ctccaaggtg |
| | attcctgtgc | aagtggtctc | cactctctgaa ggaagtaaac |
| | gttggccctgc | atcagtgtgg | accgttaacct ggcattgtgc |
| | ccagaagcgt | cacttgggtca | agtttgtttg tcttggctgc |
| | gtccctgccc | ttcttctctt | tcgcacaggc ttaccatcca |
| | ctatgaggtc | ctgggaaatg | acacagcaaa atggcggatg |
| | cacctttggc | ttcatcgtgc | cgctgtttgt catgctgttc |
| | tacactgttt | aaggcccaca | tggggcagaa gcaccgagcc |
| | cgtcctcatc | ttcctgcttt | gctggctgccc ctacaaacctg |
| | catgaggacc | cagtgatccc | aggagagctg tgagcgcgcg |
| | ggatgccact | gagattctgg | gatttctcca tagctgctc |
| | catcggccaa | aattttcgcc | atggattcct caagatcctg |
| | caaggagttc | ttggcacgtc | atcgtgttac ctctcaact |
| | ttccaaacctc | tgaaaaccat | cgatgaaggaa atatctctc |
| | acaccctgag | gttgtgtgtg | gaagtgatc tggctctgga |
| | gggggacgct | ataggatgtg | gggaagttag gaactgtgtg |
| | ttctgaggag | ctgttgagtg | acctccaagg accgctctt |
| | caccatcatt | cccgttgaa | gtcacatctt taaccacta |
| | acatctgagc | cccgaatctg | acattagatg agagaacagg |
| | agggctggat | gctctcgttg | acctcacag gacatctctc |
| | ttgagccacc | aagctgggtg | ctctgtgtgc tctgatcaga |
| | catctcaggt | gtgttgagtg | gtctgctgga gacattgagg |
| | acctgccagc | tggccttgtg | aggagctgga acacatgtt |
| | aacaagaga | aagagggttt | ggaagccaga tctatgccac |
| | tgaccaacat | cgcagacaca | tgtgctggcc acctgctgag |
| | gcagccctta | gcccttcccc | tctgcagctt ccaggctggc |
| | gaaagccatg | tgcagccacc | agtcatttgg gcaggagat |
| | tccgtgcttg | tccctgttga | agtatcttgg ttgtgacaga |
| | tgttggctgt | tccctgcagta | gaatgggggc agcacctctc |
| | tgaaggggcag | tgttccctgg | ggctttaact cctgtagaaa |
| | actcctgttc | atgcccatcc | ccctggccaa ggaagatccc |
| | aatcctcttc | caggaggtct | cagcttcacc ctgaggtgag |
| | cttgcctagg | catagcctgc | ctcaagctat gtgagctcac |
| | tccatgagtt | gcagtttttt | cctagttctgt ttccctctc |
| | gtttgttcac | tgtatgtctc | tggtgcctgg agcctactaa |
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|-----|---|-------------|---|--------------|
| 463 | 152299 Interleukin-8 Receptor A | NP_000625.1 | acaggaatga atgcgatgctg aaaagaccac tctttt MSNITDPQMW DFDDLNFTGM PPADEYSPC MLETEILNKY VVIIAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLEAL TLPINAAASKV NGWIFGTFLC KVSILLKEVN FYSGILLAC ISVDRYLAIV HATRTLQKR HLKVFVCLGC WGLSMNLSLP FFLEFRQAYHP NNSPVCYEV LGNDTAKWRM VLRILPHTFG FIVPLFVMLF CYGFTLRTLK KAHMGQKHRA MRVIFAVLI FLICWLPYNL VLLADTLMRT QVIESCERR NNIGRALDAT EILGFLHSCL NP1IYAFIQ NFRHGLFKIL AMHGLVSKF LARHRTSYT SSSVNVSSNL cctgagcct cctcaatgat gggtaaacg tgacatcatt tgtgtttgag gaacccacga A acatctcaac tggcagggaac gcctcaagtcg ggaatgcaca tcggcaaatc cccatcgtgc actgggtcat tatgagcatc tccccagtg ggtttgttga gaatgggatt ctctctgtgt tctgtgctt ccggaatgaga agaaatccct tcaactgtcta cactatgct ttagattatg cagacatctc actgctcttc tgtatttca tctgtctat cgtactatgct ttagattatg agctttcttc tggccattac tacacaattg tcaattatc agtgactttt ctgtttggct acaacacggg cctctatctg ctgacggcca ttagtgttga gaggtgctg tcagtctctt acccatctg gtaccgatgc catgcccc agtaccagtc ggcattggct tgtgcccttc tgtgggctct ttcttgcttg gtgaccacca tggagtatgt catgtgcac gacagagaag aagagagtca ctctcggaat gactgccgag cagtcatcat ctttatagcc atcctgagct tctgtgtctt cagccccctc atgtgtgtg tctccaagc ttacatagc catcatggtc accatcata agaacacgtg ggcttccat tctccaagc tttacatagc catcatggtc aagatccgga tattctcat ctctgctatg cccatgagac tctcttacct cgtgtactat gattattggt cgaccttgg gaacctacac cacatttccc tgcctcttc cacaatcaac agtagcgcca acctttcat ttacttcttt gtgggaagca gtaagaagaa gagattcaag gattccttaa aagtgttct gaccagggct ttcaaatgat aaatgcaacc tggcgccag aaagacaatt gtaatacggc cacagttgag actgtcgtct aagaactgt agggaaagt tggataaaaa tgttgggaaca caggtcattt ttagtttgt ctggaaat gacttaagta tctcctaaat gtgatacaga agaactatc atcccatatg catgagatac taattaatga tgaaa MDGSNVTSFV VEEFNISTG RNASVGNHR QIPVHWVIM SISPVGFVEN GILLWFLCFR P MRRNPTVYI THLSIADISL LFCIFILSID YALDYELSSG HYTTIVLSV TFLFGYNTGL YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVTTMEYVM CIDREESHSH RNDGRAVIF IAILSFLVFT PMLVSTIL VVKIRKNWA SHSKLYIVI MVTIIIFLIF AMPMRLLYLL YYEYWFSTFGN LHHISLLFST INSSANPTIY FVVGSSKKKR FKESLKVVLIT RAFXDEMQR RQKDNCTVT VETVW atgtgcccg actggaagag ctctctgac ctcatggctt acatcatcat ctctctcaat A ggcctccctg ccaacctctt ggcctgctg ggcctgttg ggcggtaccg ccagcccccag cttgcaacctg tgacatctct cctgctgagc ctgacgctgg ccgacctct cctgtgtctg ctgtgcccct tcaagatcat cgaggtctg tcaaaccttc gctgggtacct gcccaggctc gtctgcccc tcaacagttt tggcttctac agcagctct actgcagcac gtggctcctg gcgggcatca gcatcgagcg ctacctggga gtggcttct ccgtgagta caagctctcc cgccggcctc tgtatggagt gattgcagct ctgggtggct ggggtatgct cttgggtcac tgaccatcgt tgatcatcgt tcaatacttg aacacgactg agcaggtcag aagtggcaat | Homo sapiens |
| 464 | 158822 Mas Proto-Oncogene | NM_002377 | | Homo sapiens |
| 465 | 158822 Mas Proto-Oncogene | NP_002368.1 | | Homo sapiens |
| 466 | 159152 G Protein-Coupled Receptor GPR43 | NM_005306 | | Homo sapiens |

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|-----|--|-------------|---|-----------------|
| 467 | 159152 G Protein- Coupled Receptor GPR43 | NP_005297.1 | gaaattacct gctacagagaa cttacccgat aaccagttgg acgtggtgct gccgtgctgg ctggagctgt gccgtgtgct cttcttcac cccatggcag tcaccatctt ctgtactagg cgttttgtgt ggatcatgct ctccagccc cttgtggggg cccagagcgg gcgcagagcc gtggggtgtgt ctgtgtgtgac gctgtcgaat ttctgtgtgt gcttcggacc ttacaactgt tcccactgg tgggtatca ccagagaaaa agccctgggt ggcgtcaaat agccgtggtg ttcagttcac tcaacgccag tctggacccc ctgctcttct attctcttc ttcagtgtgtg cgcagggcat ttggagagg gctgcaggtg ctgcgaatc agggctcttc cctgttggga cgcagaggca agacacagc agaggggaca aatgaggaca ggggtgtggg tcaaggagaa gggatgcaa gtctgactt cactacagag tag MLPDMKSSLI LMAYIIFLT GLPANLIALR AFVGRIRQPQ PAPVHILLS LTLADLILL P LLPFKIEAA SNFRWYLPKV VCALTSEGFY SSIYSTWLL AGISIERYL G VAFPVQYKLS RRPLYGVIAA LVAWMSFGH CTIVIIQYL NTTEQVRSGN EITCYENFTD NQLDVVLVPR LELCVLFFI PMAVTIFCYW RFVWIMLSQP LVGAQRERRA VGLAVVTILN FLVCFGFPNV SHLVGYHQRK SPWRSIAV FSSLNASLDP LLFYFSSSW RRAFGRGLQV LRNQGSSLLG RRGKDTAEGT NEDRGVCQGE GMPSSDFTTE ggccacagc cagcgcact ctgccaggct cccggccatc gccgcctgg tgcgcgcgcc A gccagctctt tgccggcgg gggccgcgcc cgcggggctc agggagacc atgcgcgcgc sapiens caagtccgct gccgcgcgcg tggctatgct gctgtggcagg cgcctcgcgc tggcccttg ggccggcggg cggccagcgg gccagctgc aggagagtg tgaactatgt cagatgatcg aggtgcagca caagcagtc ctggagagg cccagctgga gaatgagaca ataggctgca gcaagatgtg ggacaacct acctgctggc cagccacccc tcggggccag gtagtgtct tggcctgtcc cctcatctc agctcttct cctccatca aggcgcgaat gtaagccgca gctgcaccga cgaaggctgg acgacactgg agcctggccc gtacccatt gccgtgtgtt tggatgacaa ggcagcgagt ttggatgagc agcagacct gtctacggt tctgtgaaga ccggctacac cattggctac ggcctgtccc tcgccacct tctggtcgcc acagctatcc tgagcctgtt caggaagctc cactgcacgc ggaactacat ccacatgca cttctcatat ccttcactct gagggtgccc gctgtcttca tcaaaagactt ggcctcttc gacagcgggg agtgcggacca gtgctccgag ggctcgtgg gctgtaaggc agccatggtc tttttccaat attgtgtcat ggctaactc ttctggctgc tgggtgaggg cctctacctg tacacctgc ttgcccgtct cttctctct gagcggaggt acttctgggg gtacatactc atcggctggg gggtacccag cacattcacc atggtgtgga ccatcgccag gatccatttt gaggattatg gggtgctgga caccatcaac tcctcactgt ggtggatcat aaaggggccc atcctcacct ccatcttgggt aaacttcac ctgtttattt gcatactccg aatcctgctt cagaaaactgc ggccccccaga tatcaggaag agtgacagca gtccatactc aaggctagcc aggtccacac tcctgctgat cccctgttt ggagtaact acatcatgtt cgccttcttt ccggacaatt ttaaagctga agtgaagatg gtctttgagc tcgtctggg gtctttccag ggtttgtgg tggctatct ctactgttc ctcaatgtg aggtgcagg ggagctgagg cggaaagtggc ggcgctggca cctgcaggc gtccctggct ggaaccccaa ataccggcac ccgtcgggag gcagcaacgg cggcacgtgc agcacgagg ttccatgct gaccgcgctc agcccaggtg cccgcgctc ctccagctc caagccgaag tctcctgggt ctgaccacca ggatccagg ggcccaaggc gcccctccc gcccttccc actaccccc gcagacgccc gggacagagg | Homo sapiens |
| 468 | 159973 Vasoactive Intestinal Polypeptide Receptor 1 | NM_004624 | cccgccatc gccgcctgg tgcgcgcgcc A cgcggggctc agggagacc atgcgcgcgc sapiens tgcgtggcagg cgcctcgcgc tggcccttg tgactatgt cagatgatcg ccagctgga gaatgagaca ataggctgca cagccacccc tcggggccag gtagtgtct cctccatca aggcgcgaat gtaagccgca agcctggccc gtacccatt gccgtgtgtt agcagacct gtctacggt tctgtgaaga tcgccacct tctggtcgcc acagctatcc ggaactacat ccacatgca cttctcatat tcaaaagactt ggcctcttc gacagcgggg gctgtaaggc agccatggtc tttttccaat tgggtgaggg cctctacctg tacacctgc acttctgggg gtacatactc atcggctggg ccatcgccag gatccatttt gaggattatg ggtggatcat aaaggggccc atcctcacct gcatactccg aatcctgctt cagaaaactgc aatcctgctt gcatactccg aatcctgctt cagaaaactgc gtccatactc aaggctagcc aggtccacac acatcatgtt cgccttcttt ccggacaatt tcgtctggg gtctttccag ggtttgtgg ggatgcagg ggagctgagg cggaaagtggc ggaaccccaa ataccggcac ccgtcgggag gtccacgagg ttccatgct gaccgcgctc agcccaggtg tctcctgggt ctgaccacca ggatccagg actaccccc gcagacgccc gggacagagg | Homo sapiens |

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|-----|--|-------------|--|-----------------|
| 469 | 159973 Vasoactive Intestinal Polypeptide Receptor 1 | NP_004615.2 | <p> cctgccccgg cgcgccagc cccggccctg ggctcgaggg ctgccccgg cccctggctc tctggtccgg acactcctag agaacgcagc cctagagcct gcctggagcg tttctagcaa gtgagagaga tgggagctcc tctcctggag gattgcaggt ggaactcagt cattaactc ctctccaaa ggccccctac gccaatcaag ggcaaaaagt ctacatactt tcatctgac tctgccccct gctggctctt ctgcccaatt ggaggaagc aaccggtgga tctcaaaaca acactgggtg gacctgaggg cagaaaaggt ctgccccggg aaggtcacca gcaccaaac cacggtagt cctgaattt caccattgct gtcaagtctt tttgggttaa gattaccac tcaggcattt gactgaagat gcagtcact accctattct ctctttacgc ttagttatca gctttttaa gtgggttatt ctggagtttt tgtttggaga gcacacctat cttagtgtt ccccaccgaa gtggactggc ccctgggtca gtctgtggg agacggtgc aaccaaggga ctgagggact ctgaagcctc tgggaaatga gaagcgagcc accagcgaat gctaggtctc ggactaagcc tacctgctct ccaagtctca gtggcttcat ctgtcaagtg ggatctgtca caccagccat acttatctct ctgtgctgtg gaagcaacag gaatcaagag ctgccccct tgtccacca cctatgtgct aactgttgta actaggtcga gagatgtgca cccatggct ctgacagaaa gcagataact caccctgcta cacatacagg attgaactc agatctgtct gataggaatg tgaagcacg gactcttact gctaaacttt gtgtatcgta accagccaga tctcttgggt tatttgttta ccactgttat tattaatgcc attatcctga attccccctg ccacccccac ctccctggcg tgtgctgtg gagcctcca tctcatgtat catctggata ggagcctgct ggtcacagcc tctctgtct gcccttcaac ccagtggcca ctcagcttcc taccacaccc tctgccagaa gateccctca ggactgcaac aggttgtgc aacaataaat gtggcttgg a </p> | Homo sapiens |
| 470 | 160040 Vasoactive Intestinal Polypeptide Receptor 2 | NM_003382 | <p> cgggacgaggg gggcgcccc cgcgctcggg gcgctcggct acagctgcgg ggccccgagt A ctcgcgcac tcgctccccg cccatgctgg aggcggcga acccggggga cctaggacgg aggcgcgggg cgctggggcg ccccggcac gctgagctcg ggatgcggac gctgctgct cccgcgctgc tgactgctg gctgctcgc cccgtgaaca gattcaccc agaatgcga tttcatctgg aaatacagga ggaagaaaca aaatgtacag agcttctgag gctcaaaaca gaaaacaca agcctgcag tggcgtctgg gacaacatca cgtgctggcg gctgccaat gtgggagaga ccgtcacggt gccctgccc aaagtcttca caaatcttca cagcaagca ggaacataa gcaaaaactg tacgagtac ggatgtcag agcgttccc agattctgc gatgctgtg gctacagcga cccggaggat gagagcaaga tcacgtttta tattctggtg aaggccattt ataccctgg ctacagtgtc tctctgagt cctctgcaac aggaagcata attctgtgcc tcttcaggaa gctgcactgc accaggaatt acatccact gaacctgtc ctgtccttca tctgagagc catctcagtg ctggtcaagg acgacgttct ctatccagg </p> | Homo sapiens |

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|-----|--------|---|-------------|--|--|-----------------|
| 471 | 160040 | Vasoactive Intestinal Polypeptide Receptor 2 | NP_003373.1 | <p>tctggcagct tgcactgccc tgaccagcca tctctctggg tgggctgcaa gctgagcctg gtctctctgc agtactgcat catggcaaac ttctctctgc tctctctgga gggctctctac ctccacaccc tctctgtggc catgtctccc cctaagaagt gcttctctgc ctactctctg atcggatggg gctctccccc cgtctgcac cgtgcatgga ctgggcccag gctctactta gaagacaccc gttgctggga tacaacgac cacagtgtgc cctgtgtggt catacgaata cgtattttaa ttccatcat cgtcaatttt gctcttttca ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtcggc ggcaacgacc agtctcagta caagagcctg gccaaagtcca cgtctctgct tatecgcgtg ttgggggttc actacatggt gtttgcgctg tttcccatca gcatctctc caaataccag atactgttg agtctgcct cgggtcgttc caggccctgg tgggtgcccgt cctctactgt ttctgaaca gtgaggtgca gtgcagctg aagcgaaaat ggcgaagccg gtgcccagcc cgtctcgcga gccgggatta cagggtctgc ggttctctct tctccacaa cggctcggag ggcgcccgtc agttccaccg cgcgtcccga gccagtcct tctgcaaac ggagacctcg gtcatctagc cccacctcg cctgtcggac gcggcgagg gccacgggtt cgggcttctt cggggctgga gacgcggctt tctctctctc agatgccga gcacctgtc gggcaggtca ggcggtctt gactcgtca agctgggtgt ccactaaacc ccatacctg</p> | <p>IHPECFHLE IQEETKCTE LLRSQTEKHK ACSGVWDNIT P CWRPANVGET VTVPCKVFS NFYSKAGNIS KNCTSDGWE TFPDFVDACG YSDPEDESKI TFYILVKAIY TLGYSVIMS LATGSIILCL FRKLHCTPNY IHLNLSFI LRAISLVKVD DVLYSSTGL HCPDQSSMW GCKLSLVFLQ CYIMANHFVW LVEGLYLHTL LVAMLPPRR FLAYLLIGW LPTVCIGAWT AARLYLEDTG CWDNDHFSV WVVIRIFILI SIIVNFVLI SIIRILQKL TSPDVGGNDQ SQYKRLAKST LLLPLFGVH YMVFAVFPIS ISSKYQILFE LCLGSFQGLV VAVLYCFINS EVQCELKRW RSRCTPSAS RDRVCGSSF SHNGSEGALQ FHRASRAQSF LQTETSVI</p> | Homo sapiens |
| 472 | 160055 | Motilin Receptor (GPR38) | NM_001507 | <p>atggggcagcc cctggaaacgg cagcgacggc cccgaggggg cgcggggagcc gccgtggccc A gcgctgcgc cttgcgacga gcgcgctgc tcgccccttc cctggggggc gctggtgcg gtgaccgctg tgtgctctg cctgtctgtc gtggtgtgga gcggcaacgt ggtgaccgtg atgctgatcg ggcgctacg ggacatgagg accaccacca acttgtacct gggcagcatg gccgtgtccg acctactcat cctgctcggg ctgcccgttc accgtacct cctctggcg tcgcgccct gggtgttcg gccgtgtc gcgctcgc gcgctcagc tcgagcgcta cctggccatc tgacactacg ccacgtgct ccacgtgct gcacatgacc gcgctcagc gcgctcagc cctggccatc tgccgcccgc tccgcccgc cgtcttggtc accggggcc gcgtccgc gctcagct gtgctctggg ccgtggcgct gctctctgcc ggtcccctt tgttctctgt gggcgtcag caggaccccgc gcatctcgt agtcccggc ctcaatggca ccgcgggat cgcctcctg cctctgcct cgtcgcgcgc tctctgctc tcgcgggcg caccgcgtc ccgcgctg gggcccagga ccgcgaggc cgcgcgctg ttccagcgcg aatcccgcc gagccccgcg cagctgggag cgtgcgtgt catgctgtg gtacaccacg cctacttctt cctgcccctt ctgtgcctca gcatctcta cgggtctc cggcgggagc tgtggagcag ccggcgccg ctgcgagggc cggccgcctc gggcgggag agagggcacc ggcagaccgt ccgcgtctg ctggtggtgg ttctggcatt tataatttc tgggtgcct tccaggttg cagaatcatt tacataaaca cggagatgc gcggtatg tacttctctc agtactttaa catcgtcgt</p> | <p>atggggcagcc cctggaaacgg cagcgacggc cccgaggggg cgcggggagcc gccgtggccc A gcgctgcgc cttgcgacga gcgcgctgc tcgccccttc cctggggggc gctggtgcg gtgaccgctg tgtgctctg cctgtctgtc gtggtgtgga gcggcaacgt ggtgaccgtg atgctgatcg ggcgctacg ggacatgagg accaccacca acttgtacct gggcagcatg gccgtgtccg acctactcat cctgctcggg ctgcccgttc accgtacct cctctggcg tcgcgccct gggtgttcg gccgtgtc gcgctcgc gcgctcagc tcgagcgcta cctggccatc tgacactacg ccacgtgct ccacgtgct gcacatgacc gcgctcagc gcgctcagc cctggccatc tgccgcccgc tccgcccgc cgtcttggtc accggggcc gcgtccgc gctcagct gtgctctggg ccgtggcgct gctctctgcc ggtcccctt tgttctctgt gggcgtcag caggaccccgc gcatctcgt agtcccggc ctcaatggca ccgcgggat cgcctcctg cctctgcct cgtcgcgcgc tctctgctc tcgcgggcg caccgcgtc ccgcgctg gggcccagga ccgcgaggc cgcgcgctg ttccagcgcg aatcccgcc gagccccgcg cagctgggag cgtgcgtgt catgctgtg gtacaccacg cctacttctt cctgcccctt ctgtgcctca gcatctcta cgggtctc cggcgggagc tgtggagcag ccggcgccg ctgcgagggc cggccgcctc gggcgggag agagggcacc ggcagaccgt ccgcgtctg ctggtggtgg ttctggcatt tataatttc tgggtgcct tccaggttg cagaatcatt tacataaaca cggagatgc gcggtatg tacttctctc agtactttaa catcgtcgt</p> | Homo sapiens |

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|-----|---|-------------|---|-----------------|
| 473 | 160055 Motilin Receptor (GPR38) | NP_001498.1 | ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct cattcaaaag aagtaacagag cggcgccctt taaactgctg ctgcgaagga agtcaggcc gagagcttc cacagaagca gggacactgc ggggaagtt gcaggggaca ctggaggaga caccgtgggc tacaccgaga caagcgttaa cgtgaagacg atgggataa MGSPWNGSDG PEGAREPPWP ALPPCDERRC SPFDLALVR SRPWVFGPLL CRSLYVGE MLIGRYRDMR TITNLYLGS AVSDLLILG LPFLLGRVLR TRRRVRALIA VLMVALLSA GPFLLVGE CTYATLLHMT ALSVERVLA CRPLRRLVLR TRRRVRALIA VLMVALLSA GPFLLVGE QDPGISVVPV INGTARIASS PLASSPPLWL SRAPPPSPS GPETAEEAAL FSRECRPSPA QLGALRVMLW VTTAYFFLPF LCLSLYGLI GRELWSSRRP LRGPAAAGRE RGHRTVRVL LVVLAFTIC WLPFHVGRII YINTEDSRMM YFSQYFNIVA LQLFYLSASI NPILYNLISK KYRAAFAFKLL LARKSRPRGF HRSRDAGEV AGDTGGDTVG YTETSANVKT MG atggacctgc ccccgccagct ctctctggc cctatgtgg cgcctttgc gctggcttc A ccgctcaacg tccgtggcat cgcaggccgc agggccacg cccggctccg tctaccctc agcctggtct acgcccgtga cctggctgc tccgacctgc tgcagacgt ctctctgcc ctgaaggcgg tggaggcgt agctccggg gctggcctc tgcggcctc gctgtgccc gtcttcggg tggccactt ctcccaactc tatgccggg ggggcttct ggcggcctg agtgcaggcc gctacctggg agcagcctc ccttgggtg accaagcct cggaggccg tgctattcct ggggggtgtg cgcggccatc tgggcccctg tccgtgtca cctgggtctg gtctttggt tggaggctcc agggagctgg ctggaccaca gcaacacct cctgggcatc aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggaccggc ctctgccgc ccggcccgct tcagcctctc tctctgctc tttttctgc ccttggcct caccgcttc tgctacgtg gctgctccg ggcactggc cgtccggcc tgacgcacag gcggaagctg cgggcggcct ggtggccgg cggggccctc ctacagctg tgcctcgtg agaccctac aacgcctcca acgtggccag ctctctgtac ccaactatg gaggtcctg gcggaagctg gggctcatca cgggtgcctg gagtgtgtg cttaatccg tggtagccg ttacttggg agggtcctg gctgaagac agtgtgtg gcaagaacg aagggggcaa gtcccagaag taa | Homo sapiens |
| 474 | 160059 G Protein- coupled Receptor GPR40 | NM_005303 | atggacctgc ccccgccagct ctctctggc cctatgtgg cgcctttgc gctggcttc A ccgctcaacg tccgtggcat cgcaggccgc agggccacg cccggctccg tctaccctc agcctggtct acgcccgtga cctggctgc tccgacctgc tgcagacgt ctctctgcc ctgaaggcgg tggaggcgt agctccggg gctggcctc tgcggcctc gctgtgccc gtcttcggg tggccactt ctcccaactc tatgccggg ggggcttct ggcggcctg agtgcaggcc gctacctggg agcagcctc ccttgggtg accaagcct cggaggccg tgctattcct ggggggtgtg cgcggccatc tgggcccctg tccgtgtca cctgggtctg gtctttggt tggaggctcc agggagctgg ctggaccaca gcaacacct cctgggcatc aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggaccggc ctctgccgc ccggcccgct tcagcctctc tctctgctc tttttctgc ccttggcct caccgcttc tgctacgtg gctgctccg ggcactggc cgtccggcc tgacgcacag gcggaagctg cgggcggcct ggtggccgg cggggccctc ctacagctg tgcctcgtg agaccctac aacgcctcca acgtggccag ctctctgtac ccaactatg gaggtcctg gcggaagctg gggctcatca cgggtgcctg gagtgtgtg cttaatccg tggtagccg ttacttggg agggtcctg gctgaagac agtgtgtg gcaagaacg aagggggcaa gtcccagaag taa | Homo sapiens |
| 475 | 160059 G Protein- coupled Receptor GPR40 | NP_005294.1 | MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRLTP SILVYALNLC SDLLLTVSLP P LKAVEALASG AWPIPASLCP VFAVAHFPL YAGGGFLAAL SAGRYLGAFF PLGYQAFRRP CYSWGVCAAI WALVICHILGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLI FFLPLAITAF CVVGLRALA RSLTHRRKL RAAWVAGGAL LTLLLCVGPY NASNVASFLY PNLGGSWRKL GLITGAWSVV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK atgcacaccg tggctacgtc cggaccacg gcgtcctgg gggcaccgc caacgcctc A ggctgcccgg gctgtggcg caacgcctg gacggcccag tcccttgcg gcgggcccgtg gacgctggc tctgtccgct ctcttctgc gctgtatgc tgcctggcct ggtgggggac tcgtgtgtca tctacgtcat ctgcccacc aagcctatgc ggaccgtgac caacttctac atcgccaacc tggcgcccac ggacgtgacc ttcctcctg gctgcgtccc cttcacggcc ctgctgtacc cgtgcccgg ctgggtgctg ggcacttca tgtgcaagt cgtcaactac atccagcagg tctcgtgtga gcccacgtgt gccacttga cgcctatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgc ctgcaccgc gcaaccccgc cctggcgctg gctgtcagcc tcagcatctg gtaggctct cggcggtgtg ctgcgcggt gctgcgccc | Homo sapiens |
| 476 | 160189 G Protein- coupled Receptor GPR54 | NM_032551 | atgcacaccg tggctacgtc cggaccacg gcgtcctgg gggcaccgc caacgcctc A ggctgcccgg gctgtggcg caacgcctg gacggcccag tcccttgcg gcgggcccgtg gacgctggc tctgtccgct ctcttctgc gctgtatgc tgcctggcct ggtgggggac tcgtgtgtca tctacgtcat ctgcccacc aagcctatgc ggaccgtgac caacttctac atcgccaacc tggcgcccac ggacgtgacc ttcctcctg gctgcgtccc cttcacggcc ctgctgtacc cgtgcccgg ctgggtgctg ggcacttca tgtgcaagt cgtcaactac atccagcagg tctcgtgtga gcccacgtgt gccacttga cgcctatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgc ctgcaccgc gcaaccccgc cctggcgctg gctgtcagcc tcagcatctg gtaggctct cggcggtgtg ctgcgcggt gctgcgccc | Homo sapiens |

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|-----|---|-------------|--|-----------------|
| 477 | 160189 G Protein- Coupled Receptor GPR54 | NP_115940.1 | <p>caccgcctgt caccggggcc gcggcgctac tgcaagtggg ccttccccag ccgcgccttg gagcgcgct tcgcactgta caacctgctg gcgctgtacc tgctgcectg gctcgcacc tgccctgct atgcggccat gctgcgccac ctgggcgggg ctggcgtggc ccccgcccc gccgatagcg ccctgcaggg gcaggtgctg gcagagcgcg caggcgccgt gcgggccaag gtctgcggc tggggggc cgtggtctg ctcttctctg cctgctggg ccccatccag ctgttctctg tgctgcaggc gctggggccc gctggctctt ggcacccacg cagctacgcc gcctacgcgc ttaagacctg ggtcactgc atgtctctac gcaactccgc gctgaacccg ctgctctacg ccttctctgg ctcgcacttc cgacaggctt tccgcggctg ctgccccctg gcgcgcgcg gcccccgcg ccccgccgg cccggacctt cggaccccg agccccacac gcggagctgc accgctggg gtccacccg gcccccgca gggcgagaa gccagggagc agtgggctgg ccgcgcggg gctgtgcgtc ctggggggag acaacgcccc tctctga</p> <p>SLVIYICRH KPMRTVNFY FLCCVPFTA LLYPLPGWVL GDFMCKFVNY IQQVSVQATC ATLTAMSVDR WYVTFPLRA LHRTPRLAL AVSLSIWVGS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLIAT CACYAAMLRH LGRVAVRPAP ADSLQGVQL AERAGAVRAK VSRLVAHVLL LFAACWGPQ LFLVLQALGP AGSWHPRSYA AYALKTWIHC MSYNSALNP LLYAFLGSHF RQAFRRVCP APRRPRRPRR PGPSDPAAPH AELHRLGSHP APARAQKPGS SGLAARGLCV LGEDNAPL</p> | Homo sapiens |
| 478 | 160202 Adrenomedullin in Receptor (ADMR) | LG6564 | <p>CCGGCGCCAC GTGCGCTGTG CTGCGCGCT ACCTGACGGG GCATTGTCTAT GCACGTGGCTG A ACCTATCATG AGACCTGCT GCTGCTCACA CTGTATGAA CACACATCTG CCTACACTGC CACCTGCTAT CAACCTGCT ACTTCTTCTA TGATGTCTAT TGAATGCTG TACATGCTAG ACTGCGCTAT TCACCGGATC CTTGACAACT TTATCAGCCA GACTGCCGGG GCGGGCTGG ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGG GCACATGCG CTCTCTTCC TTCTGTGACA CCCAGGTTA CATAATCAAT ACCAGGGTG ATAGCCAGAC TGCTGCGAGC AACC CGCCAC CTTGACGCA AGCCTGAGT TTCAGGCACA CCATTGCTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p> | Homo sapiens |
| 479 | 160202 Adrenomedullin in Receptor (ADMR) | NM_007264 | <p>cagcctctc acagctcccc atagcctgga cctgcggccc ctcccctcag gaccgagggg A ctcccaagg aaactcagg gtgtgtgtgt cccaatgtca gtgaacccca gctggggggc tgccccctcg gaggggtca ccgcagtgcc taccagtgac ctggagaga tccacaactg gaccgagctg ctgacctct tcaaccacac ttgtctgag tgccacgtgg agctcagcca gagcacaag cgcgtgtctc tcttggcct ctacctggcc atgtttgtg ttgggctggt ggagaacctc ctggtgatat gcgtcaactg gcgcggctca ggcggggcag ggtgatgaa cctctacatc ctcaacatgg ccacgcgga cctgggcaat gtctgtctc tgccccgtg gatctggag gtcacgtgg actacacctg gctctgttc agcttctct cgcgttctac tcaactcttc tactttgtca acatgtatag cagcatcttc ttctgtgtg gctcagtg cgaccgctat gtcacctca ccagcgctc cccctctcgg cagcgttacc agcaccaggt gcggcgggcc atgtgtgcag gcatctgggt cctctcggcc atcatccgc tgcctgaggt ggtccacatc cagctggtgg agggccctga gcccattgct ctcttcattg cacttttga aacgtacagc acctggggcc tggcggtggc cctgtccacc accatctgg gcttctctg gcccttccct ctcatcacag tcttcaatgt gctgacagcc tgccggctgc ggcagccagg acaacccaag agccggcgcc actgcttctg gctgtggcc tactgtggc tctttgtcat</p> | Homo sapiens |

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160202 Adrenomedull NP_009195.1
in Receptor
(ADMR)Homo
sapiens

gtgctggctg ccctateatg tgaccttgct gctgctcaca ctgcatggga cccacatctc
cctccactgc cactgtgtcc acctgtctta ctctctctat gatgtcattg actgtttctc
catgtcgac tgtgtcatca cctccatcct ttacacattt ctgagccac acttcgggg
ccggctcctg aatgtgttag tccattacct ttcaagagc cagaccaagg cgggcacatg
cgctcctct tctcctgtt ccacccagca ttccatcatc atcaccagg gtgatagcca
gctgtgca gcagccccc acctgagcc aagctgagc ttccaggac accatttgct
tccaaatact tccccatct ctcccatca gctcttaca cccagctgag gta
MSVKPSWGP PSEGVTAVPT SDLGEIHNWT ELLDLFNHTL SECHVELSQS TKRVVLFALY P
LAMFVVLVE NLLVICVNR GSGRAGLNNL YILNMAIADL GIVLSLPVWM LEVTIDYTWL
WGSFSCRFTH YFYFVNMYS IFFLVCLSD RYVTLTASP SWQRYQHRVR RAMCAGIWL
SAIIPLEVV HIQLVEGPEP MCLFMAPFET YSTWALAVL STTILGFLLP FPLITVFNVL
TACRLRQPGQ PKRRRHCLLL CAYVAVFVWC WLPYHVTLLL LTLHGTHISL HCHLVHLLYF
FYDVIDCFSM LHCVINPILY NFLSPHERGR LLNAVVHYLP KDQTKAGTCA SSSCSTQHS
IIITKGSQP AAAAPHPEPS LSFQAHLLP NTSPISTQP LTPS

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160204 G Protein-
Coupled
Receptor RTAHomo
sapiens

atgcgggttc tgcttccaaa gccatctctt ccagcaggag agggctctac tctgagctcc A
tattttccaa ggtcccgccg cgcgctcggc gctggcctgc tgcctcgccg ggtccgccc
ccggaggcgg gagtacagg aagagccctc cacaagaaga ggcctcgccg gatcaggaca
gctgcaggtg ggtgtgcaga ctgtgagct gccagcagg gccagagccg gccagccctg
gagatggctg gaaactgctc ctgggaggcc cctccggca acaggaacag gatgtgccct
ggcctgagcg agccccgga actctacagc cggggcttcc tgaccatcga gcagatcgcg
atgtgcgcgc ctccggccgt catgaactac atcttctgc tctctgcct gtgtggcctg
gtgggcaacg ggctggctct ctgggttttc ggtctctcca tcaagaggaa ccccttctcc
atctacttcc tgcactggc cagcgcgat gtgggctacc tctcagcaa ggcggtgttc
tccatctga acacgggggg ctctctgggc actacatccg cagcgtgtgc
cgggtcctgg ggctctgcat gtctcttacc ggcgtgagcc tctgcccgc cgtcagcgc
gagcgtgcy cctcggtcat ctctcccgcc tggctactgg cccggcgcc caagcgccg
tcggcctgg tgtgcgccct gctgtgggtc ctgtccctcc tggtcacctg cctgcacaa
tacttctcg tgttctggg ccgcggggcc cccggcgccg cctgcaggca catggacatc
ttcctgggca tctcctgtt cctgctctgc tgcctgtca tggctgtgc ctgctggcc
ctcatcctgc acgtggagt cggggcccga cggcgccagc gctctgcaa gctcaaccac
gtcactcctgg ccatgtctc cgtcttctg gtgtcttcca tctacttag gatcgactgg
ttccttctt ggttcttcca gatcccgcc ccttccccg agtacgtcac tgacctgtg
atctgcatca acagcagcgc caagccatc gtctacttcc tggccgggag ggacaagtgc
cagcggctgt gggagcgcct cagggtggtc ttccagcgg cctgcggga cggcgctgag
ctgggggag cggggggcag cagcccaac acagtcacca tggagatga gtgtccccg
gggaacgct cctgagact cagcgccctg agagtcagg gccaggaaag ggcctccaa
accttcgcc ttgggacagg aatgggacc tgcctctgag tccatacagg agaagaaga
tctgttctc ctctctggg ctcttctcc ctgggtgtgg gactccagg gtggctggga
gactgggag ccaccagcaa acagacctgt ggcctctgc cggctcccc accattctg
ctcccttaga gacctctgt acagaagtgt ccccgagtg gtggggcccc tcttgcct
aggctggttg gtaaaagaga ggaggtcaac accagccta gccacctctg cctcttgggt

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|-----|---|-------------|---|--------------|
| 482 | 160204 G Protein-Coupled Receptor RTA | CAC39840.1 | <p>cagccctct tgactgtgtc ccagccagca ccagggcagc agcctcatcc ctgccatcca gggctgttcc agagattcga tcctcttaag gcattatcag tgagcaaatg tgaaggaaat gggtctctga agaaagtctt gggtcacatg cctgttagct aagtctttct gcaacaacc tccttcccc ccgtcagatc atttggtgac ttgtatgggg ggattttctg ttatgtcaag gctctggaga caggaaggcc ctttggccgc cttgggtagt tgacctgctt tttctgactc cgggacgagc cagtcctagg ctgctccgg gagcactga ggtatccgc aggccatgag gacccactgg gcagctctt gacagctct tggctccag cccaccoga aagtggacac tggtccgc ctggccact ggggactggc actgtgtgc acagtggccc aatgtggcca acggaagtt tataaagac aaaatgtata tcaataaaca ttttataact tgc MAGNCSWEAH PGNRNRCPG LSEAPELYSR GFLTIEQIAM LPPPAVMNYI FLLLCGLV P GNGLVWFFG FSIKRNPSI YFLHLASADV GYLFSAVES ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPRLS AVVCALLWVL SLVTCILHNY FCVFLGRGAP GAACRHMDF LGILLFLCC PLMVLPCLAL ILHVECRARR QRSAKLNHV ILAMVSFLV SSIYLGIDWF LEWVFQIPAP FPEYVTDICI CINSSAKPIV YFLAGRDKSQ RLWEPLRVVF QALRDGAEL GEAGGSTPT VTMEMQPPG NAS</p> | Homo sapiens |
| 483 | 160206 G Protein-Coupled Receptor GPR32 | NM_001506 | <p>atgaatgggg tctcggaggg gaccagaggc tgcagtgaaca ggcacactgg ggtcctgaca A cgtgategct ctgtgtccag gaagatgaac tcttccgat gcctgtctga ggaggtgggg tcctccgcc cactgactgt ggttatcctg tctgcgtcca ttgtcgtcgg agtgcgtggc aatgggctgg tgctgtggat gactgtcttc cgtatggcac gcacggtctc caccgtctgc ttcttccacc tggcccttgc cgatttcatg ctctcactgt ctctgcccac tgccatgtac tatattgtct ccaggcagt gctcctcga gagtgggctt gcaaacctta catcacctt gtgttctca gctactttgc cagtaaatgc ctctctctt tcatctctgt ggacgttgc atctctgtcc tctacccgt ctgggcccctg aaccacgca ctgtgcagcg ggcgagctgg ctggccttg ggggtgtgct cctggccgc ctctgtgct ctgcgcact gaaattccgg acaaccagaa aatggatgg ctgtacgcac tgctacttg cgttcaact tgacaatgag actgcccaga ttgtgattga aggggtcgtg gagggaaca ttataggac cattggccac ttcctgctgg gcttccctgg gcccttagca atcataggca cctgcgccc cctcatecgg gccaagctct tgcgggaggg ctgggtccat gccaacggc ccaagaggct gctgctgtg ctggtagcg ctttcttat ctctgtgtcc ccgtttaacg ttgtgtgtt ggtccatctg tggcgacggg tgatgctcaa ggaatctac caccgccga tgctgtcat cctccaggct agctttgect tgggctgtgt caacagcagc ctcaaccct tccttaagt ctctgttggc agagatttcc agaaaaagt ttccagctt tgacttctg cctggcgag ggcgtttgga gaggaggagt ttctgtcat ctgtcccgt ggcaacgcc cccgggaatg a MNGVSEGTG CSDRQPVLT RDRCSRKNM SSGCLSEVG SLRPLTVVIL SASIVGVVLG P NGLVLWMTVF RMARTVTVF FFHLALAFM LSLSLPIAMY YIVSRQWLLG EWACKLYTF VFLSYFASNC LLVFISVDRCL ISVLYPVWAL NHRVTQASW LAFGVWLLAA ALCSAHLKR TTRKWNCGTH CYLAENSDNE TAQWIEGVV EGHIIIGTGH FLGLFLPLA IIGTCAHLIR AKLLREGVWH ANRPKRLLV LVSAFFIWS PFNVVLVHL WRRVMLKEIY HPRMLLIQA SFALGCVNS INPFLYVTVG RDFQEKFRQS LTSALARAFG EEEFLSSCPR GNAPRE cagcctccct ctcccacctc tgtctgccc gctgctctt tctagctgt gtcaggagct A gactgcctcc agggctggaa tctgtgtctc cctctgtgcc cagagcccca cgatgtcggc</p> | Homo sapiens |
| 484 | 160206 G Protein-Coupled Receptor GPR32 | NP_001497.1 | | Homo sapiens |
| 485 | 160210 G Protein-Coupled | NM_004778 | | Homo sapiens |

Receptor
GPR44
(CRTH2)

caacgcccac ctgaagccac tctgcccac cctggagcag atgagccgtc tccagagcca
cagcaacacc agcatccgct acatcgacca cgcggccgtg ctgctgcacg ggctggccctc
gtcgtctggc ctggtggaga atggagtcat cctcttcgtg gtgggtgccc gcacgcgcca
gacgtggtc accactggg tgcctgaacct ggcgctgtcc gacctgttg cctctgcttc
cctgcccctc ttcacctact tcttgccgct ggcccaactg tgggagctgg gcaccacctt
ctgcaaaactg cactcctcca tctctttct caacatgttc gccagcgctc tctgtctcag
cgccatcagc ctggaccgct gcctgcaggt ggtggcgccg gtgtggcgcc agaaccaccg
caccgtggcc gggcgccaca aagtctgctt ggtgctttgg gcactagcgg tgcacaacac
gggtgccctat ttcgtgttcc gggacacat ctgcggctg gacgggcgca ttatgtgcta
ctacaatgtg ctgctcctga acccggggcc tgacgcgat gccacgtgca actgcgcga
ggcgcccctg gcggtcagca agttcctgct ggccctcctg gtgccgctgg cgatcatcgc
ctcgagccac gcgccctga ccctgcgtt gccacaccg gccgcgccg ggccagggcg
cttcgtgcg ctggtggcag ccgtcgtggc cgccttcgct cctgctggg ggccctacca
cgtgttcagc ctgctggagg ccgtcgttgc cagcctggc cttctcaac agcgtggcca acccggtgct
gcgcgggctg cccttcgtca ccagcctggc caagctgcgg cgtcgtcgc gccgcggcg
ctacgtgctc acctgcccg acatgctgcg caagctgcgg cgtcgtcgc gccgcggcg
ggagagcgtg ctggtggacg acagcgagct ggtggcgcg ggaagcagcc gccgcggcg
cacctcctcc accgcgcgt cggcctccc tttagctctc tgcagccgc cggaggaacc
gcggggccc gcgctctcc tccgctggct gctggggcag tgcgcagct cccgcagac
gggcccctg aaccggcgcc tgagcagcac ctgcagtag acgccggcc acgtaggcg
gcactcacac gcgaagat caccagggtg ccgcggttca attcgatc cggactcctg
ccgagtgat caagtccga gggcggggac ccaggcacct gcattttaaa gcgcccggg
agactctgaa tcttttctcag aaacagttag ttaagcagt gcttctcaaa ccttgatgtg
cctgtgaatc acctagggtt ctgtttaagt gcagctgat ccaggagcc gggcgccggg
actgagagtc tgcacttaac aagctcccag gccgagaagc cagtgcggca ggttcacag
cgaggccctg agtaacacaa agtgaaactc gtaatagact tcccactcta gggcagtga
gtcggaggg cacacgggtt gcgtctccc ggagttcagt ttaccagat gatgggggag
gggggaagg gtttatgtt aaaccatcca tgtatttttg gagaagagag aggaaggtt
tgagaagcac tgttcagcc tgcctcttc attagccaa tgcctactgc gctagacgt
tcataccaca atcttaagg gcagcttcta ttaccagct tttacagct agcacattct
ggctcaggg ggttaagtga cttggcccgt ttccaggctc acgaccacag ggtctgacct
ctaacctag gcatcacatg ctcaatgact cctcgtgtg cgaggacatt ctctgacct
ctcgaaggac ttaagatgct acctgtgac ccagcactgc ccaagtgct tccaaggcag
aagcagcag ggtggcgtg gtcaagcact cgggaaacct ggggctaact aaatccaatg
ggggaatga ctaaaagtct tgggtcgcta gaagtgaat gggcacagca actctaagac
tacagcacac gtcatctctt agctaagcg accagctcc ctgtcggcct ggtgttctgt
gggatccctc tgggactgg taatcccaag atctgtgcag cccgcctcc aggccacatg
gggctgggca gctaccattt cctttttgag gatgggagg gtaacttgca cctctgacct
atcacttcca ctgcacccc totcattcct ccacctcgc tggacttggg gtcagagact
gctgtgtttg agctctgcag ccaggggacc gaaaagtgg tgtcaatgaa ttttgcctgg
tggatgaaat gtcagtggaa gaagcagatg agaaactctt gagatcttgg tctgtgtttt

| Accession | Gene | Protein | NP | NP_004769.1 | NP_005684 | NP_005675.1 | NP_005683 | Protein | Accession |
|-----------|--------|--|------------|-------------|-------------|-------------|-------------|-------------|-----------|
| 486 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | MSANATLKP1 | CPILQMSRL | QSHSNTSIRY | IDHAAVLLHG | LASLLGLVEN | GVILFVVGCR | P |
| | | | MRQTVVTWV | LHLALSDLLA | SASLFFTYF | LAVGSWELG | TTFCKLHSSI | FFINMFASGF | |
| | | | LLSAISLDR | QOVVRPWAQ | NHRTVAAAHK | VCLVWALAV | LNTVPYFVER | DTISRLDGR | I |
| | | | MCYYNVLLN | PGPDRDATCN | SRQALAVSK | FLLAFLVPLA | IIASSHAAVS | LRLQHRGRR | |
| | | | PGREFRLVA | VAAFAALCWG | PYHVFSLLEA | RAHANPGLRP | LVRGLPFVT | SLAFNSVAN | |
| | | | PVLYLTCPD | MLRKLRRSLR | TVLESVLVDD | SELGAGSSR | RRRTSSTAR | ASPLALCSR | P |
| | | | EEPRGPAPLL | GWLLGSCAAS | PQTGPNRAL | STSS | | | |
| 487 | 160212 | G Protein-Coupled Receptor GPR52 | atgaatgaat | ccaggtggac | tgaatggagg | atcttgaaca | tgagcagtg | cattgtgaat | A |
| | | | gcgtccgagc | gtcactctcg | cccacttggg | tgtggccact | acagtgtggt | ggatgtctgc | |
| | | | atcttcgaga | cagtggttat | tgtgttctg | acatttctga | ttattgtcg | gaatctaaca | |
| | | | gttatctttg | cttttcattg | tgctccactg | ttacatcatt | atactaccag | ctatttccatt | |
| | | | cagacgatgg | catatgctga | tcttttctgt | ggagttagct | gcttgggttc | tactctgtca | |
| | | | cttctceact | actccacagg | tgctccagag | tcattaaact | gccgggtttt | tgatatatac | |
| | | | atctcagttc | taaaagtgtg | tctcatggca | tgcttctgct | gcacagtg | ggatcgttat | |
| | | | cttgcaataa | caaagcctct | tctctacaat | caactgggtc | ccccttgcg | cttgagaaatt | |
| | | | tgcatatttt | tgatctggat | ctactcctgc | ctaattttct | gccttccct | ttttggctgg | |
| | | | gggaaacctg | gttaccatgg | tgacattttt | gaatgggtg | ccactgtctg | gccacaccag | |
| | | | gcctatttta | ctggctttat | tgtttgctta | ctttatgctc | ctgctgcctt | tggtgtctgc | |
| | | | ttcacctact | ttcacatttt | caaaaatttg | cgtcagcaca | caaaagagat | aaatgaccga | |
| | | | agagcccgat | tcctcagtag | tgaggttagat | tcctccagag | agactggaca | cagccctgac | |
| | | | cgctgctacg | ccatgggttt | gtttaggata | accagtgtat | tttatatgct | gtggctcccc | |
| | | | tataataatt | actttctctt | agaaagtcc | cgggtcttgg | acaatccaac | tctgtccttc | |
| | | | ttaacaacct | ggcttgcagt | aagtaaatag | ttttgtaact | gtgtaataata | cagcctctcc | |
| | | | aacggcgctt | tcgggctagg | cctccgaaga | ctgtttgaga | caatgtgcac | atcctgtatg | |
| | | | tggtggaagg | atcagggaag | acaagaaccc | aaactaggga | aacgggctaa | ttctgtctcc | |
| | | | attga | | | | | | |
| 488 | 160212 | G Protein-Coupled Receptor GPR52 | ILNMSSGIWN | ASERHSCPLG | FGHYSVVDVC | IFETVIVILL | TFLLIAGNLT | P | |
| | | | VIFAHCAPL | LHHYTTSYFI | QTMAYADLFV | GVSCIVPTLS | LLHYSTGVHE | SLTCRVFGYI | |
| | | | ISVLKSVSMA | CLACISVDRY | LAIITPLSYN | QLVTPCLRRI | CIILIIWYSC | LIFLPSFFGW | |
| | | | GKPGYHGDIF | EWCATSWLTS | AYFTGFIVCL | LYAPAAFVVC | FTYFHFKIC | ROHTKEINDR | |
| | | | RARFPSHEVD | SSRETGSHSPD | RRYAMVLFRI | TSVFYMLWLP | YIIFLLESS | RVLNDPTLSF | |
| | | | LTTLAVSNS | FCNCVIYSL | NGVFRUGLRR | LFEITMCTSCM | CVKQDEAQEP | KPRKRANSCS | |
| | | | I | | | | | | |
| 489 | 160217 | G Protein-Coupled | atgagtcagc | aaaacaccag | tggggactgc | ctggtttgacg | gtgtcaacga | gtgtatgaaa | A |
| | | | accctacagt | ttgcagtcga | catcccacc | ttcgtcctgg | gccgtctcct | caactgctg | |

| | | | | | |
|-----|-------------------|---|-------------|--|-----------------|
| 490 | Receptor GPR55 | 160217 G Protein- Coupled Receptor GPR55 | NP_005674.1 | gccatccatg gcttcagcac cttccttaag aacaggtagg ccgattatgc tggcaacctcc atctacatga tcaacctggc agtctttgac ctgctgctgg tgctctccct cccattcaag atggctcctg cccaggtaca gtcaccttc ccgtccctgt gcacctggt ggagtgctt tacttcgtca ccagtacgg aagcgtcttc accatcgct tcatcagcat ggaccggttc ttggccatcc gttaccgct actggtgagc cactcggct ccccgaggag atctttggga tctgcagtca caatctgggt cctggtgtgg accggaagca tccctatcta cagtttccat gggaagtgg aaaaatacat gtgcttcac aacatgctgt atgatacctg gageccaag gtcttcttcc cgctggaggt gtttgcttc ctcctccca tgggcatcat gggcttctgc tgctccagga gcatccacat cctgctgggc cgccgagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catgcagacc agcctgggt tattcgtggt ctccttctc ccagtcacc cggtgttctt cctgcagttc ctggtgagaa acagtttat cgtagagtgc agagccaagc agagcatcag cttcttcttg caattgtcca tgtgttctc caatgtcaac tgctgctgg atgtttctg ctactactt gtcatcaag aattcgcac gaacatcagg gccaccggc cttccaggtt ccagctggtc ctgcaggaca ccagatctc cgggggctaa IYMINLAVF LQQNTSGDC LFDGVNELMK TLQFAVHIPT FVLGLLNL AIHGFTFLK NRWPDYAATS P LAIRYPLLV HSGPPGRSLG SACTIWIWV TGSIIYSFH GKVEKVMCFH NMSDDTWSAK VFFPLEVFGF LLPMGMGFC CSRSIHLLG RRDTQDWVQ QKACIYSIAA SLAVFVVSFL PVLGLFFLQF LVRNSFIVEC RAKQSISFFL QLSMCFSNV CCLDFVCYF VIKFRMNIR AHRPSRVQLV LQDTTISR | Homo sapiens |
| 491 | Receptor GPR35 | 160219 G Protein- Coupled Receptor GPR35 | NM_005301 | atgaatggca cctacaacac ctgtggctcc agcgacctca cctgggcccc agcgatcaag A ctgggtctt acgcctactt gggtgctctg ctggtgctag gctgctgct caacagcctg gcgctctggg tgttctgctg ccgcatgcag cagtgagcgg agaccgcat ctacatgacc aacctggcgg tggcggacct ctgctgctg tgcaccttg cctcgtgct gcactccctg cgagacact cagacacgcc gctgtgccag ctctccagg gcatctacct gaccaacagg tacatgagca tcagcctggt cagggccatc gcgtggacc gctatgtgc cgtgcggcac ccgctgcgtg cccggggct gcgtcccc agcgaggctg cggcgtgtg cgcggtcctc tgggtgctgg tcategctc cctggtggt cgtgggtcc tggggattca ggaggcggc ttctgcttca ggagaccccg gcaaatctt aactccatg ggttcccgct cgtgggattc tacctgcccc tggcgtggt ggtcttctg tccctgaag tggtagctgc cctggcccc aggccacca ccgacgtggg gcaggcagag gccaccgca aggtgcccc catggtctg gccaaactcc tgggttctg ggtctgctt ctgccccg acgtggggt gacagtgcg ctcgcagtg gctggaacgc ctgtgcttc ctggagacga tccgtcgcg cctgtacata accagcaagc tctcagatg caactgctg ctggacgcca tctgctacta ctacatggc aaggagtcc aggagcgctc tgacttgcc gttggctccc gtgctaagg ccacaaaagc caggactctc tggcgtgac cctgcctaa MNGTYNTGCS SDLTWPPAIK LGFYAYLGLV LVLGLLNL ALWVFCCRMQ QWTETRIYMT P NLAVADLCLL CTLFVLHSL RDTSDTPLCQ LSQGIYLTNR YMSISLVTAI AVDRYAVVRH PLRARGLRSP RQAAAVCAVL WVLVIGSIVA RWLIGIQEGG FCFRSTRHNF NSMRFPLLGF YLPLAVVFC SLKVVTAIAQ RPPTDVGOAE ATRKAARMW ANLLVFVVCF LPLHVGLTVR LAVGNACAL LETIRRALYI TSKLSDANCC LDAICYIMA KEFQASALA VAPRAKAHS | Homo sapiens |
| 492 | Receptor GPR55 | 160219 G Protein- Coupled Receptor GPR35 | NP_005292.1 | | Homo sapiens |

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|-----|---|-------------|-----------|---|--------------|
| 493 | 160221 G Protein-Coupled Receptor GPR27 | NM_018971 | QDSLCVTLA | atggcgaaacg cgagcgagcc ggggtggcagc ggcgggcgcg agggcgccgc cctgggctc A aagctggcca cgctcagct gctgctgtgc gtgagcctag cgggcaacgt gctgttcgcg ctgctgacg tgcgggagcg cagcctgcac cgcgcctcgt actacctgct gctcgacctg tgcttgccg acgggctcg cgcgctcgc tgcctcccg ccgtcatgct ggcgggcgcg cgtggggcg cgcgggcggg ggcgccgcg ggcgcgctgg gctgcaagct gctgccttc ctggccgcg tcttctgctt ccacgcgcg ttcctgtgc tggcggtgg cgtaaccgc tacctggcca tgcgcacca ccgcttctat gcagagcgcc tggcgcgctg gccgtggcc gccatgctgg tgtgcgcgc ctggcgctg gcgctggcg cgccctccc gccagtgtg gacggcggtg gcgacgaaga ggacgcgcg tgcgcctgg agcagggcc cgacggcgcc ccggcgcg cgggcttctt gctgctgtg gccgtgtgg tggcgccac gcacctgct tacctcgcc tgccttctt caccacgac cgcgcgaaga tgcggccgc gcgctgtg ccggcgctca gccacgactg gacctccac ggcccgggcg ccaccggcca ggcgccgc aactggacg cgggcttcg ccgggggcc cgcgcgcct cctgtgtgg catccggccc gcaggcgcg cgcggcgcg cgcgcgcct cctgtgtgg aagaattcaa gacggagaag agctgtgca agatgttcta cgcgctcag ctgctcttc tgcctctg ggggccctac gtcgtggcca gctacctgcg ggtcctgtg cgcccgcg cgctccccc ggctacctg acggcctcg tgtgctgac ctgcgcgag gccggcata acccgctg gtgcttctc ttcaacagg agctgagga ctgctcagg gccagttcc cctgtgcca gagcccccg accaccagg cgaccatcc ctgcgacctg aaaggcattg gtttatga MANASEPGS GGGEAAALGL KLATLSLLC VSLAGNVLFA LLIVRERSLH RPYLLLLDL P CLADGLRALA CLPAVMLAR RAAAGAPP GALCKLLAF LAALFCFHAA FLLLGVTTR YLAIAHREY AERLAGWPCA AMLVCAAWAL ALAAFPFVL DGGDDDEDAP CALEQRPDGA PGALGFLLL AVVVGATHLV YLRLFFTHD RRMKRPARLV PAVSHDWTFFH GPGATGQAAA NWTAGFGRGP TPPALVGIRP AGPGRGARRL LVLEEFTEK RLCKMFYAVT LLFLLWGPY VVASYLRVIV RPAVPOAYL TASVWLTFQ AGINPVVCEL FNRELRDCFR AQFPCCQSPR TTQATHPCDL KGIGL | Homo sapiens |
| 494 | 160221 G Protein-Coupled Receptor GPR27 | NP_061844.1 | | atggctccctc acctcttgcct gctctgtctc ctcccttgg tgcgagccac cgagccccac A gagggccggg ccgacgagca gacgcggag gagcgcctgg cgcgtcccaa tgcctcgac ttcttctctt ggaacaaacta cacttctcc gactggaaga actttgtgg caggagcgcg tacggcgctg agtcccagaa cccacgggtg aaagccctgc tcatgtggc ttactcctc atcatgtct tctcactct tggcaacgtc ctggtctgtc atgtcatct caagaaccac cgaaatgact cggccaccag cctcttcat gtcaacctgg cagttgcca cataatgatc acgctgctca acacccctt cactttggtt cgcttttga acagacatg gatatttggg aagggcatt gccatgtcag ccgcttggc cagtactgct cactgcactg ctgacgactg acactgacag ccattgggtt ggatgcgcc caggtcatca tgcacccctt gaaaccccg atctcaatca caaagggtgt catctacatc gctgtcatc ggaccttgg tacgttctt tcactccac atgctatctg ccagaaatta ttaccttca aatacagtga ggacattgtg cgctccctc gctgcccaga cttccctgag ccagctgacc tcttctggaa gtacctggac ttggccacct tcatctgct ctacatctg cccctcctca tcatctctg ggctacgct | Homo sapiens |
| 495 | 160222 G Protein-Coupled Receptor GPR72 | NM_016540 | | | Homo sapiens |

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|-----|---|-------------|---|-----------------|
| 496 | 160222 G Protein- Coupled Receptor GPR72 | NP_057624.1 | <p>cggtgtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtag tttgccctgc ggcgcaaaaa gaagaagacc atcaagatgt tgatgtgggt ggtagtccctc tttgccctct gctgtgtccc cctcaactgc tacgtccctcc tcctgtccag caagtcacac cgaccaaca atgcccctca ctttgccttc cactgtgttg ccatgagcag cactgtctat aaccccttca tatactgtcg gctgaacgag aacttaagga ttgagctaaa ggcattactg agcatgtgtc aaagacctcc caagcctcag gaggacggcg accctcccc agttcccttc ttcagggtgg cctggacaga gaagaatgat ggccagaggg ctccccttgc caataacctc ctgccacct cccaactcca gctctgggaag acagacctgt catctgtgga accattgtg acgatgagtt agaagaggtt gggaagaggg agtgggaggg gtctgtctcc acctgagggc gggaaagaga gcctattctc acacatgatc ttcagagtgc tggaaacaca ctccctgcga aggctgtagg actcttgaat tcttaggaaa ctgtccagcc tcttagcccc atgtgatgtg aaaactaaa ggcaccacca actagacatg tgttcataaa tcccacata agaaacactg ggaggcacag cagcctgtat ctctgagaa gaggagcgag gacaaacttg gccacagatg gggctgaatc attcaactgc ctccatctgt ggggcagctg ctgctttaca gcccttccta ctagactgag catcccgag gagacctaaa tcatacttg ggtgtgggtg cccagatgca cagagctctg cttgaacag gtacacggcg cagggaatg ccagcaa</p> <p>MVPHLLLLCL LPLVRATEPH EGRADEQSAE AALAVPNASH FFSNNYTF S DWQNFVGRRR P YGAESQNPV KALLIVAYSF IIVFSLFGN LVCHVIFKNQ RMHSATSLFI VNLAIVADIMI TLTNPFTLV RFVNSWIFG KGMCHVSREFA QYCSLHVSAL TLTAIADVDRH QVIMHPLKPR ISITKGVIYI AVIWTWATFF SLPHAIQKL FTFKISEDIV RSLCLPDFPE PADLFWKYLD LATFILLXIL PLLIISVAYA RVAKILWLCN MIGDVTTEQY FALRRKKKT IKMLMLVVVL FALCWFFPLNC VLLLSKVI RTNNALYFAF HWFAMSSSTCY NPFIYCWLNE NFRIELKALL SMCQRPPRPQ EDGQSPSPVS FRVAWTEKND GORAPLANNL LPTSQSQSGK TDLSSVEPIV TMS</p> | Homo sapiens |
| 497 | 160223 G Protein- Coupled Receptor G2A | NM_013345 | <p>gggaggggtg cgaggttagc cagcagggcg gggccctggg tcattttaaa ctctcagagt A gaacgtcttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaatatagc caggaggaa ggtgagcaag ggacacgaca ctcaccggga taaacccaac aagcgagcg aggtgtggg gaaacccggan ccttgcacac cgccggggga aggtggccn cgccaccac cgtggaagaa cagcgcggan gcabcccacg agatgagcg gaactgccgt gagatccagc aatnccnact gtgggtctga cccaggatan cggaagcag ggaagtgaac agccctctc atgttcttga caccgtcatt ctacagagct cagctaaggc acagaggcag ccgagcgtct gtcagcagag tcgtggctga gcagaacacg ccacagcca cagccacac gccacacgtg caggattgct caagatggaa gggcacagtg gaatatatat atatatatt attttggcg agaccctgga ggacacactg aatacaatgg aataccatcc cgcctttgaa aggaaggga atcctggcac acgctgcaac aggagggagc ttgaggacac tgtgtgtgag ggagcagctg agacacgaa ggacacacg tgaagacacg cagagatgc caccacgtg gggaggtgac agggagggcc agcgcacaga gacaaagtgg aatggaggcc tgggggctgg gagcaaatgc ggagcagtg ctctctgggg cagagtctcc gtttgggaag atgagaaggt tctgcccagc gatgctggcg atggttcag aagaatgtga atgtgccccaa tgtactgaa aaacggttac aatggaaacg ccaccocagt gaccaccact gccccgtggg cctccctggg cctctccgc agacactgca acaactgtgc ctctgaagag</p> | Homo sapiens |

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agcaggatag tcctgggtcgt ggtgtacagc gcggtgtgca cgtgggggtt gccggccaac
 tgcctgactg cgtggctggc gctgctcag gctactcagg gcaacgtgct ggccgtctac
 ctgctctgcc tggcactctg cgagctgctg tacacaggca cgtgccact ctgggtctac
 tatatecgca accagcacg ctggacccta ggcctgctgg cctgcaaggt gaccgcttac
 atctctctct gcaacatcta cgtcagcatc ctctctcgt gctgcatctc ctgcgacgcg
 ttctgtggcg tgggtacgc gctggagagt cggggcgccg gccgcggag gaccgcatc
 ctcatctcg cctgcatctt catctcgtc ggtatcgttc actaccgggt gttccagacg
 gaagacaagg agacctgctt tgacatgctg cagatggaca gcaggattgc cgggtactac
 tacgccaggt tcaccttgg cttggccatc cctctctcca tcctgcctt caccaaccac
 cggatttca ggagcatcaa gcagagcatg ggtttaagcg ctgcccagaa ggccaaggtg
 aagcactcgg ccctcgggt ggttgtcatc ttctcgtctt gcttcgccc gtaccactg
 gttctctcgc tcaaagccgc tgccttttcc tactacagag gagacaggaa cgccatgtgc
 ggcttgagg aaagcctgta cacagcctct gtggtgttcc tgtcctgtc caggtgac
 ggctggctg acccattat ctacgtgctg gccacgacc attccggcca agaagtgtcc
 agaatccata aggggtgaa agagtgtcc atgaagacag acgtcacag gctcacccac
 agcagggaca ccgaggagct gcagtcgcc gtggcccttg cagaccata caccttctcc
 aggccctgc accaccagg gtcaccatgc cctgcaaga ggtgatgga ggagtcctgc
 tgagccact gtgtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt
 cctgtgact gagccacca gccacagtgc ccatgtcccc tctggaagac aaactaccaa
 tttctcgtc ctgaagccac tccctcgtg accactggcc ccangcttcc ccacatggaa
 ggtggctgca tgccaaaggg aagagcgaca cctcagctt tccgggagcc canagagcat
 gtggcangca gtggggcctc ttcatcatca nctgcctgc tggctcctt tgctgtggg
 cangtacacc cctgtggca gaagtacctg gtggctgccc tgttcgcatc agtggcgatg
 actttattg cggagcattt ctgcaagcgt tgcctgcatg cgggtgtgca ttgtggccc
 tctgggctcc tgcctcaaaa tgtcagttag caccatgctg gaagtaccca tcaactgtgc
 agcggccagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg
 ggtgggt

CLTAWLALLQ VLGQNVLAIV LLCLALCELL YTGTLPLWVI YIRNQHRWTL GLLACKVTAY
 IFFCNIVVSI LFLCCISCDR FVAVVALES RGRRRRTAI LISACIFILV GIVHYPVFQT
 EDKETCFDML QMDSRIAGY YARFTVGFAL PLSIIAFNH RIFRSIKQSM GLSAAQKAKV
 KHSIAIVVVI FLVCFAPYHL VLLVKAAPS YRGDRNAMC GLEERLYTAS VFCLSLTVN
 GVADPIIYVL ATDHSRQEVs RIHKGWKEWS MKTDVTRITH SRDTEELQSP VALADHYTFS
 RPVHPGSPC PAKRLIEESC

498 160223 G Protein- NP_037477.1 KTCNNVSFE SRVLVVVYS AVCTLGVFAN P

Coupled
Receptor G2A

499 160224 Endothelin NM_004767

Type B
Receptor-
Like Protein
2 (ETBR-LP-
2)

cggtgtacagg gggcccaaga gctgggctgg ctgtctcctg ctcatcagc catcggtgg A
 ctgtggcccc tggctgtctc tcttgcctg attttggctg tggggctaag cagggtctct
 gggggtgccc ccctgcact gggcaggcac agagccagaga cccaggagca cagagaccga
 tccaagaggg gcaccagga tgaggagcc aaggcgctgc agcagtatgt gcctgaggag
 tgggcgaggt accccggcc cattaccct gctggcctgc agccaacca gcccttgggtg
 gccaccagcc taaacccga caaggatggg ggcacccag acagtgggca ggaactgagg
 ggcaatctga caggggcacc agggcagagg ctacagatcc agaaccctt gatatccgtg

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|-----|--------|--|-------------|--|-----------------|
| 500 | 160224 | Endothelin Type B Receptor- Like Protein 2 (ETBR-IP- 2) | NP_004758.1 | accgagagct cctacagtgcc ctatgccatc atgcttctgg cgtgggtggt gtttgcgggtg ggcattgtgg gcaacctgtc ggtcatgtgc atcgttgtgg acagctacta cctgaagagc gcctggaact ccatccttgc cagcctggcc ctctgggatt ttctggtcct ctttttctgc ctccctattg tcatcttcaa cgagatcacc aagcagaggc tactgggtga cgtttcttgt cgtgccgtgc ccttcattga ggtctcctct ctggagatca cacttttcag cctctgtgcc ctgggcatg accgcttcca cgtggcacc agcaccctgc ccaaggtgag gccatcgag cggtgccaat ccatcctggc caagtggct gtcacttggg tgggctccat gacgtggct gtgcctgagc tcctgctgtg gcagctggca caggagcctg cccccaccat gggcaccctg gactcatgca tcatgaaacc ctcagccagc ctgcccagat cctgtattc actggtgatg acctaccaga acgcccagat gtgtggttac ttggctgctt acttctgctt gccatcctc ttcacagtca cctgccagct ggtgacatgg cgggtgcgag gccctccagg gaggaagtc gagtgcaggg ccagcaagca cgagcagtgt gagagccagc tcaacagcac cgtggtgggc ctgaccgtgg tctacgcctt ctgcacctc ccagagaacg tctgcaacat cgtggtggcc tacctctcca ccgagctgac ccgccagacc ctggacctc tgggacctcat caaccagtcc tccaccttct tcaaggcgcc catcacccca gtgctgctcc ttgcatctg caggccgctg ggccaggcct tcctggactg ctgctgtgc tgcgtctgtg aggagtgcg cggggcttcg gaggcctctg ctgccaatgg tgcggacaac aagctcaaga ccgaggtgtc ctcttccatc tacttccaca agcccaggga gtcaccccca ctctgcccc tgggcacacc ttgctgaggc cccagtaggg gtggggaggg agggagaggg cggcaccccc gcggtgtctt gctgttcttt ccccataggt ctgtcttgg tgcctgtctt gctgtctagg gatggacttg gttcctcttg tcaaggtttg ggaatccg MRWLWPLAVS LAVILAVGLS RVSGGAPLHL GRHRAETQEQ QRSKRGTE EEAKGVQVY P PEEWAESYPR IHPALQPTK PLVATSPNPD KDGCTPDSGQ ELRGNLTGAP GQRLQIQNPL YPVTESSYSA YAIMLLALV FAVGIVGNLS VMCIWHSYY LKSAWNLSL SLALWDFLVL FFCLPIVIFN EITQRLGDD VSCRVPFME VSSIGVWTF S LCALGIDREH VATSLPKVR PIERCQSILA KLAVIIVGSM TLAVPELLIW QLAQEPAPMT GTLDSCIMKP SASLPESLYS LVMTYQNARM WMYFGCYFCL PILFTVTCQL VTWRVRGPPG RKSECRASKH EQCESQLNST VVGLTVVYAF CTLPENVCNI VVAYLSTELT RQTLDDLGLI NQFSTFFKGA ITPVLLLCIC RPLGQAFLDC CCCCCCECG GASEASAANG SDNKLKTEVS SSIYFHKPRE SPPLPLGTP C | Homo sapiens |
| 501 | 160225 | Sphingolipid Receptor Edg6 | NM_003775 | gagtcagccc ccgggggagg ccatgaacgc caccgggacc ccggtggccc ccgagtcctg A ccaacagctg gcggccggcg ggcacagccg gctcattgtt ctgcactaca accactcggg ccggttgccc gggcgccggg ggcgggagga tggcgccctg ggggccctgc gggggctgtc ggtggccgcc agctgcctgg tgggtctgga gaacttctg gtgctggcgg ccatcacca ccacatgcgg tcgcgacgt gggctacta ttgctggtg aacatcacgc tgagtgaact gctcacgggc gcggcctacc tggccaaagt gctgctgtg gggggccgca ccttccgtct ggcgccgcc cagtggttcc tacgggaggg cctgtctctt accgccctgg ccgcctccac cttcagcctg ctcttcaatg caggggagcg ctttgccacc atggtgcggc cgggtggcga gagcggggcc accaagacca gccgcgtcta cggcttcatc ggcctctgtt ggctgtggc cgcgctgtg gggatgctg ctttgcctgg ctggaactgc ctgtgcgctt ttgaccgctg ctccagcctt ctgccccctt actccaaagc ctacatcctc ttctgcctgg tgatcttcg | Homo sapiens |

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|-----|--|--|--------------------|
| 502 | 160225 Sphingolipid NP_003766.1 Receptor Edg6 | <p>cggggtctctg gccaccatca tgggctctcta tggggccatc tccggcctgg tgcaggccag cgggcagaag gcccacgccc cagcggcccg ccgcaaggcc cgccgctcgc tgaagacggg gctgatgac ctgctggcct tctggtgtg ctggggccca ctctcgccg tgcgtctggc cgacgtcttt ggctccaaac tctgggcccc ggagtaactg cggggcaatgg actggatcct ggccctggcc gtctcaact cggcgggtcaa ccccatcatc tactctctcc gcagcaggga gggtgacaga ccggtgtca gcttctctg ctgcgggtgt ctccggctgg gcatgcgagg gcccggggac tgcctggccc ggcccgctga ggctcatccc ggagcttcca ccaccacag ctctctgagg ccaagggaca gctttcgcg ggcccgctcg ctcccgctcg ctacgtcttc ggatgcggga gccccgtccc agcatctcca gcgtgcggag catctgaagt tgcagtcttg cgtgtggatg gtcagccac cgggtgcgtg ccaggcaggc cctcctggg tacagggaag tgtgtgcacg cagcctcgcc tgtatgggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc tctcggggct tctgacgcca aatgggcttc ccatggtcac cctggacaaag gaggtaaacca ccccacccc ccgtaggagc agagagcacc ctggtgtggg ggcgagtggg tccccacaac cccgtctctg tgtgattctg gggaagtccc ggcccccttc tggcctcag tagggctccc aggctgcaa9 ggggtggactg tgggatgcat gcctggcaa cattgaagt cgatcatggg aaaaa</p> | <p>Homosapiens</p> |
| 503 | 160228 T-Cell Death-Associated Gene 8 (GPR65) NM_003608 | <p>atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccatttgtt A tacatcttgg tgattatagt cagcattcca gccaatattg gatctctgtg tgtgtcttc ctgcaaccca agaaggaaag tgaactagga atttacctct tcagtttgtc actatcagat ttactctatg cattaactct ccttttatgg attgattata ctgggaataa agacaactgg actttctctc ctgccttgtg caaaggaggt gcttttctca tgtacatgaa gttttacagc agcacagcat tctcaacctg cattgcggtt gatcggtatt tggctgttgt ctacccttgg aagttttttt tcctaaggac aagaagaatt gcactcagg tgcgctgtc catctggata ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagtgtg tgaatattgc gatgccgaaa agtctaattt tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca acttgttca9 gacgtgtaca ggctatgcaa tacttttgtt caccatcttg atctgtaacc ggaagtcta ccaagctgtg cggcacataa agccacgga aacaaggaa aagaagagaa tcataaaact acttgtcagc atcacagta cttttgtctt atgctttact ccctttcatg tgatgttgtt gattcgtgc attttagagc atgctgtgaa cttcgaagac cacagcaatt ctgggaagcg aacttacaca atttatgaa tcacgggtgc attaacaagt ttaaatgtg ttgctgatcc aattctgtac tgttttgtta ccgaacacagg aagatatgat atgtggaata tattaatt ctgcactggg aggtgtgata catcacaaag acaagaaaa cgatacttt ctgtgtctac aaagatact atggaattag aggtccttga gtag</p> | <p>Homosapiens</p> |

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|-----|--------|---|-------------|--|-----------------|
| 504 | 160228 | T-Cell Death- Associated Gene 8 (GPR65) | NP_003599.1 | MNSTCIEEQH DLDHYLFPIV YIFVIIISIP ANIGSLCVSF LQPKKESLQ IYLFSLSLSD P LLYALTPLIW IDYTNKDNW TFSPALCKGS AFLMYMKFYS STAFLTICIAV DRYLAVVYPL KEFLRTRRI ALMVSLSIWI LETIFNAVML WEDETVEYC DAEKSNFTLC YDKYPLEKWQ INLNLETRCT GYAIPLVITIL ICNRKVYOAV RHNKATENKE KKRIIKILVS ITVTFVLCFT PFHVMILLIRC ILEHAVNFED HNSNGKRTYT MYRITVALTS LNCVADPILY CFVTETGRYD MWNILKFCFG RCNTSQQRK RILSVSTKDT MELEVL | Homo sapiens |
| 505 | 160300 | Encephalopsi n | NM_014322 | cgagccccc cgcaagctga gcgcctccgc ccgcccaggcg cgccggcgcc ggcccatgta A ctcgggggaac gcagcgggcg gccacggcta ctgggacggc ggccggggccg cgggcgctga ggggccggcg ccggcgggga cactgagccc cgcccccctc ttacggcccgc gcacctacga gcgcctggcg ctgctgctgg gctccattgg gctgctggcg gtcggcaaca acctgctggg gctgctcctc tactacaagt tccagcggtc ccgcactccc actcaactcc tccctgggtcaa catcagcctc agcagcctgc tgggtgccct cctgggggtc accttacct tegtgtcctg cctgaggaac ggctgggtgt ggacacccgt gggtgctgtg tgggacgggt ttagcggcag cctcttcggg atgttttcca ttgccacctt aaccgtgctg gcctatgaac gttacattcg cgtggtccat gccagagtga tcaatttttc ctgggctggg agggccatta cctacattcg gcttactca ctggcggtgg caggagcacc tctcctggga tggaaacagg acatcctgga cgtacacga ctggcgtgca ctgtggactg gaaatccaa ggtgccctg ggtgtcatag cccattgcta tgtgcttttc ttattttctg gctgctgggt ttccgaatgct tgggtgctg gaagatcttc agacaattca tggccattt ctatatcca ttccgaatgct tgcgtgtgtg atgtgctttt taatgatatt agtatacaag attttaaaat atgaagaaga cctggccaaa ctgtgctgtg ttaatgggtca caccttccctg gtctgttggga tgccttatat cgtgatctgc tcttgggtg ttaatgggtca tggtaacctg gtcactccaa caatatctat tgtttcgtac ccttttgcta aatcgaacac tgtatacaat ccagtgtatt atgtcttcat gatcagaaga ttccgaagt ccttttgca gcttctgtgc ctccgactgc tgagtgcca gggcctgct aaagacctac cagcagctgg aagtgaatg cagatcagac ccattgtgat gtacacagaa gatggggaca ggccaaagaa aaaagtgact ttcaactctt ctccatcat ttttatcat accagtgat aatcactgtc agttgacgac agcgacaaaa ccattggggg caacgaaaag tggggcctta aatlggatgc cacttttggg tttgtaggaa tgaaggatgg aagaagtgc tggaaatccc gttctatgta atatcaacag ctttcatcat cctcctgaag cccatgaat gccatatgc tcttgggctt caggaagagg aaccttgggg tccagcagga aatccgaatt ttaattcaac ggggtgctta cataatgaa aaaccacttg ttgaacaaaa acaattctt catcatcatc ttctaattgt ttggagattt tcatttcaaa tgcaacgat gggcatctaa catcatcatc attttccaaa acacgtaatg catttttctc gaaaatacct tataattttt aaattactct attttccaaa cgtacacatg tgtgaagtag ctgaacata ctgaattttt tactgtaaaa ataactgtcg cgtacacatg tgcctatatc tgatcaagt atcaaggaga taattctaga ttgaaaaaaga aaactctctt gttggaaca aaagacgttt tatatgtga gtatgacaaa gaggagtctc agagacaact ttgaatcctt gtcagcctgg agaccagac cagaggaatc tacaaggcaa actcccatat atttgcttcc cccaaattgc tgccccata gactcaaacg tctttttctt tgttttgggt ttctctaaa aattactgt tctttgtcga tgtatataa gccagggagt tctaagacgc cagctcttgg agattgtctc attccctgt atttccaca tatattattac atataccgc taataaattt atgtttgttt taaaaaaa | Homo sapiens |

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|-----|--|-------------|--|--------------|
| 506 | 160300 Encephalopsi n | NP_055137.1 | aaaaa MYSGNRSGGH GYWDGGGAAG AEGPAPAGTL SPAPLFSPGT YERLALLLGS IGLLVGNL P LVLVLYYKFE RLRTPTHLIL VNISLSDILV SLFGVTFTFV SCLRWGWWD TVGCVWDGFS GSLEGIIVSIA TLTVLAYERY IRVWHARVIN FSWAWRAITY IWLYSLAWAG APLLGNWRYI LDVHGLGCTV DWKSKDANDS SFVLEFLGC LVPLGLVIAH CYGHILYSIR MLRCVEDLQT IQVIKILKYE KKLAKMCFM IFTFLVCWMP YIVICFLVN GHHLVTPFI SIVSYLFAKS NTVYNPVIYV FMIRKFRSL LQLLCLRLR QORPAKDLPA AGSEMQRIRI VMSQKGDGRP KKKVTFNSSS IIFIITSDS LSVDDSDKTI GVQSLMLIQV RPL atgggcagct tgtactcga gtagctgaac cccaacaagg tccaggaaca ctataattat A accaaggaga cgctggaaac gcaggagacg acctcccgcc aggtggccctc ggccttcac gtcatcctct gtgcgccat tgtgtggaa aaccttctgg tgcctattgc ggtggccga aacagcaagt tccactcggc aatgtacctg ttctgggga acctggccgc ctccgatcta ctggcaggcg tggccttcgt agccaatacc tctgctctcg gctctgtcac gctgaggctg acgcctgtgc agtggttgc ccgggagggc tctgctcca tcacgctctc ggcctctgtc ttcagctcc tggccatgc cattgagcg cactgtgcca ttgccaagt caagctgtat ggcagcgaca agagctgcg catgcttctg cactgtgggg cctcgtggct catctcgtg gtcctcgtg gcctgcccc ccttgctgg aactcgtgg gcaacctga ggcctgctc actgtcctgc ctctctacg ccatcgtgg cctgtacgtg cgtactact gctgtgctc atcctgttg ccgccccga gacgtagcc ctgctcaaga cggtaacct cgtgctaggc gctgacatgg cgcctcgtg cctgtacgtg cgtactact gctgtgctc ctaagccac gtctttatcg tctgtggtt gcccgcctc agcactcctc ttctggacta tgcctgtccc gtccactcct gccgactct ctacaaagc cactacttt tcgccgtctc caccctgaat tccctgtca acccgtcat ctacacgtgg cgcagccggg acctggggcg ggaggtgctt cggccgctgc agtgcctggc gccgggggtg ggggtgcaag gacggaggcg ggtcgggacc ccgggccacc acctcctgc actccgcagc tccagctccc tggagagggg catgcacatg ccacgtcac ccacgttctt ggagggcaac acggtggtct ga MGSLYSEYLN PNKQEHYNY TKETLETQET TSQVSAFI VILCAIIVE NLLVLIAR P NSKFHSAMYL FLGNLAASDL LAGVAFVANT LLGSGVTLRL TPVQWFAREG SASITLSASV FSLLAIAIER HVAIAKVKLY GSKDKSCRMIL LIASWLSL VLGLPLGLW NCLGHLEACS TVLPLYAKHY VLVVTFISI ILLAIVALV RIYCVVRSSH ADMAAPQTLA LLKTVTVLGL VFIVCWLPAP SILLLDYACP VHSCPILYKA HYFFAVSTLN SLNPNVIYTW RSRDLRREVL RPLQWRPGV GVQRRRVGT PGHLLPLRS SSSLERGMH PTSPTFLEGN TW atgatctgct gcagtctct gcgccctagg attcatctt cttttaccg tagcctgact A ggcattgtat tagcaaacct atcactagac atcgtactac acgacacgta ctacgttcta gcccaactgc ggggaaatgt tagggcctg cattgcgtg gccccgcgc ccgggagcgc acagcaatgc aggcgttaa cattaccgc tagcagttct ctggtgctg cggggaccac aacctgacgc ggagcagatt catcgtctg taccggctgc gaccgtcgt ctacaccca gagctgcgcg gacgcgcaa gctggccctc gtgctcacg gcgtgctcat ctccgctc gcactcttgg gcaatgctct ggtgttctac gtggtgacct gcagcaaggc catgcgcacc gtcaccaca tctttatctg ctcttggcg ctacgtgacc tgcctacac ctctctcgc | Homo sapiens |
| 507 | 160312 Sphingolipid Receptor Edg5 | NM_004230 | | Homo sapiens |
| 508 | 160312 Sphingolipid Receptor Edg5 | NP_004221.1 | | Homo sapiens |
| 509 | 160314 G Protein- Coupled Receptor GPR103 | AF411117 | | Homo sapiens |

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| 510 | 160314 | G Protein- Coupled Receptor GPR103 | ENSMPT2217 53 | <p>attcccgtca ccattgtcca gaacatttcc gacaactggc tgggggggtgc tttcatttgc aagatgggtgc catttgtcca gtctaccgct gttgtgacag aaatcctcac tatgacctgc atttgtgtgg aaaggcacca gggacttgtg catcctttha aatgaagtg gcaatacacc aaccgaaggc ctttcacaat gctagggtgtg gtctggctgg tggcagtcac cgtaggatca cccatgtggc acgtgcaaca acttgagatc aaatatgact tccatatga aaaggaaacac atctgtctgt tagaagagtg gaccagccct gtgcaccaga agatctacac cacttcac ctgtcatcct ctctcctctg cctcttatgg aagaagaaac gagctgtcat tatgatgtgtg acagtgtgtgg ctctcttctg tgtgtgctgg gcaccattcc atgttgtcca tatgatgtat gaatacagta attttgaaaa ggaatatgat gatgtcaca tcaagatgat ttttgctatc gtgcaaattha ttggattttc caactccatc tgtaattcca ttgtctatgc atttatgaat gaaaacttca aaaaaaatgt tttgtctgca gtttgttatt gcatagtaaa taaaaccttc tctccagcac aaagcaatgg aaattcagga attacaatga tgcggaagaa agcaaatgtt tccctcagag agaattccagt ggagaaacc aaaggagaag cattcagtga tggcaacatt gaagtcacaa tgtgtgaaca gacagaggag aagaaaaagc tcaaacgaca tcttgctctc tttaggtctg aactggctga gaattctcct tttagacagt ggcattaa</p> <p>MKIKYDFLYE KEHICCLEEW TSPVHQKIYT TFLVILFL PLMVMLILYS KIGYELWIKK P RVGDGSLVLT IHGEMSKIA RKKRRAVIMM VTVALFAVC WAPFHVHMM IEYSNFEKEY DDVTIKMIFA IVQIIGFSNS ICNPIVYAFM NENFKNVLS AVCYICVNKT FSPAQRHNS GITMMRRKAK FSLRNPVEE TKGEAFSDGN IEVKICEQTE EKKLKRHLA LFRSELAENS PLDSG</p> | Homo sapiens |
| 511 | 160317 | Neuropeptide FF 2 Receptor | NM_004885 | <p>tctggagcca agtaaatggtg atactgatgc ttccttttct ttgcgcgct cggattctga A gtttcacaag aatgtacctg ggtgcccctt agcgggatat gaatagcttc ttcggaaccc cagcgccag ctggtgcctc ctggaaagtg acgtctcatc tgcaccggac aaggaggcgg ggaggagcg cagagcactc agcgtccagc agcgcggcgg gccagcctgg agcggaaacc tggagtggag caggcagtcg gcgggggaca gacgtcggtt gggattgagc cggcagactg cgaaaagtat ctggagcccg agcagggaca gaacctgttg ctgcagacgg ccttggttga ttctggttcc tgcgcgcgac aggcctcgcc gggagaggtt catcatgaat gagaaatggg acacaaactc ttcagaaaaac tggcatccca tctggaatgt caatgacaca agcatcatc tgtactcaga tattaatatt acctatgtga actactatct tcaccagcct caagtggcag caatcttcat tatttccctac tttctgatct tctttttgtg catgatggga aatactgtgg tttgctttat tgtaatgagg aacaaacata tgcacacatg cactaatctc ttcactttaa acctggccat agtgtattta ctagtggca tattctgcat gcctataaca ctgctggaca atattatagc aggatggcca ttgggaaaca cgaatgtgaa gatcagtggga ttggtccagg gaatatctgt cgcagcttca gtctttacgt tagttgcaat tgcgttagat aggttccagt gttgggtcta cctttttaa ccaagctca ctatcaagc agcgtttgtc attattatga tcacttgggt cctagccatc accattatgt ctccatctgc agtaatgta catgtgcaag aagaaaaata ttaccgagt agactcaact cccagaataa aaccagtcca gtctactgggt gccgggaaga ctggccaaat caggaaatga ggaagatcta caccactgtg ctgtttgcca acatctacct ggctccccct tccctcattg tcatcatgta tggaaaggatt ggaatttcac tcttcagggc tgcagttoct cacacaggca ggaagaacca ggagcagtgg cacgtgggtg ccaggaaaaa gcagaagatc attaagatgc tccctgattg ggcctgctt tttattctct</p> | Homo sapiens |

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|-----|--------|--|-----------|---|--|--|--------------|
| 512 | 160317 | Neuropeptide NP_004876.1 FF 2 Receptor | | MNSFFGTPAA SWCLLESQVS LGLSRQTAKS SWSRSRDTC VNDTKHLYS DINITVYNY VTNLFILNLA ISDLLVGIFC IAVDRFQCVV YPFKPKLTIK KTSVPVWCRE DWPNQEMRKI QEQWHVWSRK KQKIIKMLLI HWLAFGNSSV NPILYGFENE LVQESTFQNP HGETLLYRKS aacagctattt tccttttca atgctataaa cataaagtct tggtttctttt tggtttgata ccacagtgat gtaaggcttc agctgggtatt cccagccctc tggtctctgtg gggtgtttgt acacttttgtt gcccagcttg cacacctggc accctggcag atgagaccat gtatgtgggc agatcatcag acctttgaga caatcttcac ctggttcttt aggaagcaac accatcgtct aatggcatca aatggtaaat tgcttgtgtt ttatgtggtt gtaaggacag aaaaaacaac tcttttgtgtg ttttgtctca acaataagac tgactgtaga ttttggcagc aactaacatt tcacagaaaa gctaccatgt atagcagtcgacagacaac | RRALSQVQRG PAADRARRER IISYFLIFFL AGWPFQTMTC VLAITMSPS LAPLSLIVM YGRIGISLFR PLWTMLMSD NFRRGFQEF QLQLCQKRAK EELKETNSS EI | GPWSSSLEW FINNEKWDTN CMGMNTVVCF KISGLVQGIS AVMLHVQEEK YRVRRLNSQN YGRIGISLFR YADLSPNELQ PMEAYTLKAK SHVLINTSNQ | Homo sapiens |
| 513 | 160324 | G Protein- Coupled Receptor GPR86/GPR94/ P2Y13 | NM_023914 | gataaatgca gaaagtgttg aatagcattt gataatcatg ggaatcaggt agcggtgccc tcttcttgac ggtcctccac tcattgcttc ctcagagctt atcgtgctgt ataatttttc ttgttcttca gtgaaaaagt aacatatggcc attgcacaaa aaaaagctgg tttcattttg ctgcacaaatc tgtatggatc atgcagagga ataaccttag | gataaatgca gaaagtgttg aatagcattt gataatcatg ggaatcaggt agcggtgccc tcttcttgac ggtcctccac tcattgcttc ctcagagctt atcgtgctgt ataatttttc ttgttcttca gtgaaaaagt aacatatggcc attgcacaaa aaaaagctgg tttcattttg ctgcacaaatc tgtatggatc atgcagagga ataaccttag | ggaatgca gaaagtgttg aatagcattt gataatcatg ggaatcaggt agcggtgccc tcttcttgac ggtcctccac tcattgcttc ctcagagctt atcgtgctgt ataatttttc ttgttcttca gtgaaaaagt aacatatggcc attgcacaaa aaaaagctgg tttcattttg ctgcacaaatc tgtatggatc atgcagagga ataaccttag | Homo sapiens |

| | | | | |
|-----|--|-------------|--|-----------------|
| 514 | 160324 G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13 | NP_076403.1 | <p> tttattgatg agacttcogt agataatgtg gaaatcaat ttaaccaaga aaaaagatt ggaacaaatg ctctcttaca ttttattatc ctggtgtaca gaaaagatta tataaaattt aatccacat agatctattc ataagctgaa tgaaccatta ctaagagaat gcaacaggat acaaatggcc actagaggtc attatttctt tctttctttt tttttttttt aatttcaaga gcaatttcact ttaacattttt ggaagaagact aaggagaac gtatatccct acaaacctcc cctccaaaca ccttctcaca ttcttttcca caattcacat aacactatg cttttgtgcc ccttaaatgt agatatgtgc tgaagaaaa aaaaagcc caactcttga agtccattgc tgaaaactgc agccagggt tgaagggtat gcagacttga agagtctgag gaaactgaagt gggtcagcaa gacctctgaa atcctgggta aggattttc tcttacaat taaaaacagc ctctttcaca ttacaataat ataccatagg aggcacaagc accattatta agccactttg cttaacacctt aagtgtgtac aattcaatg tgaagtgtc gtgttaacta ttctttggaa ttctccttct gtccagcaaa tactctaag atggttaaac atggcaccta ctacagcaatg ccttctgga ccacaaacct tateccctg ccccaacct ctcattaaaa acaataactt ctactgtttg ggtgtgtgat aggttctca atgcagatct cctttttcta gtagctata ttcttgactg catcgcgtaa aaatgttaa gttctgtgag agacagacat gccagatttt cttggatct cccataatc gacctacagt ccatgggtcta cagatgtttt aaatagaatt gctattctcg atacatacaa agacgtaatt gtgacctgct tacttttata tttttcttg ggagattttt caaaggatgg tgacctgctt ggtttttctg aaatgatgga taagagtcta catcctcttg tgattcaaaa aagtaaaaatg ttggtttctg aaatgatgga taagagtcta catcttctag aaaaaataca taaaggagta gtaagctct gtaaatgtgc cagagctcc aacacgacca tcgtagggtg aagccacagt ttcttccat ggcctcaag gccctagaac ttgcctacct ttctggcctt acctcctagc tacttatcca tctcttgaac tttatactct tgtataaatt tctaactttc agaaaatgcc atactctgtt ttggcaccac acatgtatat ttccccctgg tacacttga agactcttat ccatctgtga accctatgt tgtcatcact tgggtccatga aatattacct ggccaatc caccatcac ctcaaaccca atcacccct cctctgtatg ctgtcacacc tatattatta aacttatcac attgcatgt aattacttcc tgacctttgt atctactctt ttagtaactg atgtatat atgtatat atgtttttc attgtgcaat caataaatgt ttgataaat aagccc </p> <p> LKNTLVADLI MTMLPFKIL SDSHLAPWQL RAFVCRFSSV IFYETMVVGI VLLGLIAFDR FLKIIIRPLRN IFLLKPFVFAK TVSIFIWFFL FFISLPNMIL SNKEATPSSV KKCASLKGPL GLKWHQMVNN ICQIFWTVF ILMLVFYVVI AKKVDYSYRK SKSKDRKNK KLEGKVFVV AVFFVCFAPE HFARVPYTHS QTNKTDCLR QNQLFIKET TLFLAATNIC MDPLIYIFLC KKTEKLPCM QGRKTASSQ ENHSSQTDNI TLG </p> | Homo sapiens |
| 515 | 160329 Proteinase- Activated Receptor 4 | NM_003950 | <p> ctccacagg ctggctggca agcggccctg gtgggtctgc gggggcagg ggcagcttcc A tggtttatct ccacggcgc gatctgctg tccgctcgg ctcagaagc tggggctcag ggtccggcga ggcaggaagc ctgagggcac agccacagc agctcagtg cagtcagtgtg ggggcgactg ctctctggc cctcgtgct ggggttcagc ctgtctggcg gcaccagac cccagcgtc tacgacgaga gcgggagcac cggagtggt gatgacagca cgcctcaat cctgcctgcc ccccgcgct acccaggcca agtctgtcc aatgacagt acacctgga gctcccgac agctcacggg cactgctct cggctgggtg cccaccaggc tgggtgccc </p> | Homo sapiens |

cctctatggg ctggctcctgg tgggtggggct gccggccaat gggctggcgc tgtgggtgct
ggccacgcag gcacctcggc tgccctccac catgctgctg atgaacctcg cgactgctga
cctcctgctg gccctggcgc tgcccccgcg gatgcctac cactgctg gccagcgtg
gcccttcggg gaggccgctt gccgctggc cagggccga ctctatggtc acatgtatgg
ctcagtctg ctgctggcgc ccgtcagcct ggatcgtac ctggccctgg tgcaccgct
gccggccgcg gccctgcgtg gccggcgctt gcccttggc ctctgcatgg ctgcttggt
catggcgcc gccctggcac tgccctgac actgcaggg cagacctcc ggctggcgcg
ctccgacgc gtgcttgcc atgacgcgt gcccttgac gccacggct cccactggca
accggcctc acctgcctgg cgtgttggg ctgttctcg cccctgctgg ccatgctgct
gtgtacggg gccacctgc acagctggc ggccagcgc cggcgctacg gccacgcct
gaggctgacc gcagtgtgc tggcctcgc cgtggcctc tctgtgccca gcaacctgct
gctgctgctg cattactcgg acccgagccc cagcgctgg gcaacctct atggtgctta
cgtgccacg ctgggctga gccacctcaa cagctgcgtg gatccctca tctactacta
cgtgtggcc ggttcaggg acaagtgctg ggcatggctc ttccaacggt cgcggggga
caccgtggc tccaaggcct ctgcggaagg gggcagcgcg ggcattggga cccactcctc
ttgtctcag tgacacaaag tggggaaggc tgtactggt cgaacagggt cccctcccc
acttcacgtc ctctctggga cctcagaatg tgacctatt tggaatatgg gttgttaca
ctgtcactag cggaggtcac ttggagaa ggtggcctt acatccagt tgggtggtg
cctcataaga taaggagagg ccaggcctgg tggctcagc ctgtaatccc agcacttta
gaggccaaag cggatggatc acttgagccc aggagtcaa caccagcctg agcaacatgg
taaaaccca tcttaccaa aatacaaaa attagctgg cttggtggct ggcgctgta
atccagcta ctcaggagac tgaggcaga ggtcgcctg acctggggg gcagaggtg
cagtgcgcg agattgcgc actggactcc agcctgcgtg acagagagcc tgtctctaaa
ttaattaatt aattaattt attcaattt aaaaagacga aaagtgcag ccaggtgcag
tggtcacgc ctataatctc agcactctgg gaggccaaga tggaggatg ctggaagcca
ggagtttgg accagcctgg gcaacatagg gggatcccat ctctacac aaaaaattt
ttaatgaac caggcattgt ggcctgcgc tatagtcca gccactcaag aggcacaggc
gggaggatca ctgagcctg ggaggttgg ttgacagtga gctatgattg taccactgca
ctccagcctg ggcaacagag caagacctg tctcaaaaat aacaaacta aattaaaaa
aagaagacga gatagtgg gtgtgtggc tcacacctg aatcccagca ctttggaaag
ccgaggtggg cagatcatc gagccaggga gttcaagcc agcctggcta acatggtgaa
atcctatctc taccaaaat acaaaaatt gccaggcgtg gtggtgggca cctgtactgg
ggaggtgcc acctagctac tggggaggct gagtgcagag aatgcctga acctgggag
cggaggttgc ggtcagctga gatgtgcca ctgcactcca gccctgggga aagagcact
ctgtctcaa aaaaagaga agaggagagg acacagagac acacagagaa gaaagccatg
tggcggcaga ggcagagatg ggaagtgc tgacgggacac aaactaagg atgccacgat
gccaagcaca gccaacagcc accagcagc aggagacgg cctgggacgg gctctcctc
acagcctcca gaggaacca gccctggcc cacttgacc ctggacttct ggcctgcaga
actgtgagac aataaactct cattgttta agctgcctgg catgtggcac ttgtcaggg
cagccacaga atctgaaaaa ggaataaact ctgcttctc ggcctgcca gcactctgg
ctcggccttc tgggctggat gcagcccacg acgcactggg gtctgagatg gggctggagc

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|-----|--------|--|-------------|--|-----------------|
| 516 | 160329 | Proteinase- Activated Receptor 4 | NP_003941.1 | <p> tggggctggg gctgcatcc ctggagactc actgcaagtt cctgccagg aggtgaggg caccatcc taagtgcac atgtgtggc cccaccagg ccagagcctg gttggccatt ctcatgccc cagcttctg gctttggat gtctcttgag caaccagaat agcaccacca actctgctc ccaaaacca tctactagcac ggctcagcct cctgctatcc cctgactgct gggacccct gccttccctc ctctcactg caggctgac ttcttttca cttctgtca atgtcaccag ggataaggtg ggacaaatgg ggtgggggt ggacagtgtg tgcggggggg ttcgggtgct gcagacctg aactcccttc tgccaggatg ttggcagccg gttgtaagcc ttgcacggga cagaccacac ccaccgcaac ctcatccct cagcactaac cacatccact ctcaaccccg tccccttgc actgaccaca ccaacccgt tggcccccgc ccccgccact gaacactcc gccctcaacc ccgacccctc cgcactcacc tcccctcgc cgtcagacc cgccctcacc acactgacca cctcaaccc attgcccga gtcccacca cagtaccac acctcactg gctcggccct gcccacccg cagccctc cccgctgacc tccccttcc gacttacca ctccccccg cagcgccctc cccgctgacc gctcctccag cccgctcc ccgtacagg cagagcgccc gccacatct atgtgctgtt cctctgactt tacgttggc ctcctctgc caagccccc gggagccct ccttggcgtc cagaggtggg agtcggggtg tggcagccg cgttggggg cggcagtggc tccgcgcat caccgggccc cgggacagg gcgcgtcca ctctgttgca cggggtccg ggcacagt cccgggcccag tgggctgtgc gtgctgactg tgtagaagcg agtgccctg aagctacag gctgaggtg gcgggtgacc aagtgcagg gcgacgggtc agggaccgg cgggcccgg ggtgcggcg caccacgac ccgggttcgt agtagctga cagggagact ggcagcgcc agtcctgcc caccacgac tcccggagag cagggaaccg cagcacgtc aggcacggc tggggatctg tggggcagc gcggggcag gctcgaccg ggcagggag ggcggggcg tgagctcagg cccagaaatg gctgattca gggataccca ggacgctga aacacagaag aaactgac ccatcttctt ttttctttt acttttctt tttttttt tctcagag acagctcgc gctgttgccc aggctggagt gcagtggct gatctcggt cactgcaag tcggcctcc ggttcaaat gattctctg cctcagctc ccaagtagct gggataacag gcgcccacca ccgacccctg ctaattttt gtattttga tcaagacgga gtttcacat gttggccagg ctggtctcca actcctgccc tcaagtgat cgcctcggt ccattttta tctttgggt ccttccatcc cactgggaaa acgtctcagg tggcctctga aacaccactc ctttttgtgt gtgtgcacg atggctgagc atgtgtgggt gggagtcagc acattcaga tactgtgcaa tcatcactc tgtctagtta caggacggtt tctttctccc ccaaagaaac cccatcgcca tcagactca ctccccact cccagcccc tggcaaccac aaatctttcc aactctacgg atttgcctgt tctgggcatt tcatgtcaat ggaatcatgt actctgtgaa aaaaaaaaa aaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaa MWGRLLWPL VLGFSLSGT QTPSVYDESG STGGDDSTP SILPAPRGYP GOVCANDSDT P LELPDSSRAL LLGWVPTRLV PALYGLVLV GLPANGALW VLATQAPRLP STMLMNLAT ADLLALALP PRIAYHLRGQ RWPFGAAR LATAALYGHM YGSVLLAAV SLDRYLALVH PLRARALGR RLALGLCAA WLMAAALALP LTLQRTFRL ARSDRVLCHD ALPLDAQASH WQPAFTCLAL LGCFPLLAM LLCYGATLHT LAASGRRYGH ALRLTAVVLA SAVAFFVPSN LLLLHYSDP SPSAWGNLYG AYVPSLALST LNSCVDFIY YVSAEFRDK VRAGLFQRP GDTVASKASA EGGSRGMGTH SLLQ </p> | Homo sapiens |
|-----|--------|--|-------------|--|-----------------|

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|-----|---|-----------|---|--------------|
| 517 | 160330 G Protein- Coupled- Receptor TM7XN1/GPR56 | NM_005682 | cggcagcagg gtctcgctct gtcacacagg ctggagtgca gtggtgtgat cttggctcat A | Homo sapiens |
| | | | cgtaacctcc acctccggg ttcaagtgat tctcatgect cagcctcccg agtagctggg | |
| | | | attacaggtg gtgacttcca agagtactc cgtcggagga aaatgactcc ccagtcgctg | |
| | | | ctgcagacga cactgttctc gtgagttctg ctcttctctg tccaaggtgc ccacggcagg | |
| | | | ggccacaggg aagactttcg cttctgcagc cagcggaaac agacacacag gacgagcctc | |
| | | | cactacaaac ccacaccaga cctgcgcac tccatcgaga actccgaaga ggccctcaca | |
| | | | tccatgcc ctttccctgc agcccacct gcttcccgat ccttccctga cccaggggc | |
| | | | ctctaccact tctgctctta ctggaacga catgctggga gattacatct tctctatggc | |
| | | | aagcgtgact tcttgcctgag tgacaaagcc tctagcctcc tctgcttcca gcaccaggag | |
| | | | gagagcctgg ctacaggccc cccgctgtta gccacttctg tccctctctg gtggagcctt | |
| | | | cagaacatca gctgcccag tgcgcacagc ttaccttctt ccttccacag tcttccccac | |
| | | | acggccgctc acaatgcctc ggtggacatg tgcgagctca aaaggacact ccagctgtctc | |
| | | | agccagtcc tgaagcatcc ccagaaagcc tcaaggaggc cctcggctgc cccgccagc | |
| | | | cagcagttgc agagcctgga gtccgaactg acctctgtga gattcatggg ggacatggtg | |
| | | | tcttctgagg aggaccgat caacgccacg gtatggaaag tccagcccac agccggcctc | |
| | | | caggacctgc acatccactc ccggcaggag gaggagcaga gcgagatcat ggagtactcg | |
| | | | gtgctgctgc ctgaaacact cttccagagg acgaaaggcc ggagcgggga ggctgagaag | |
| | | | agactcctcc tgggtgactt cagcagccaa gccctgttcc aggacaagaa ttccagccaa | |
| | | | gtcctgggtg agaaagtctt ggggattgtg gtacagaaca ccaaagttagc caacctcacy | |
| | | | gagcccggtg tgtctacttt ccagaccacg ctacagccga agaattgtac tctgcaatgt | |
| | | | gtgttctggg ttgaagacct ccaattgagc agccggggcc attggagcag tgctgggtgt | |
| | | | gagaccgtca ggagagaaac ccaaacatcc tgcttctgca accacttgca ctactttgca | |
| | | | gtgctgatgg tctcctcgtt ggaggtggac gccgtgcaca agcactacct gacccctcctc | |
| | | | tctctacgtg gctgtgtcgt ctctgccctg gccctgcctg tcaccattgc cgcctacctc | |
| | | | tgctccaggg tgcccctgcc gtgcaggagg aaacctcggg actacacct caaggtgcac | |
| | | | atgaacctgc tgctggcgtt cttcctgctg gacacgagct tctgtctcag cgagccggtg | |
| | | | gccctgacag gctctgaggc tggctgcga gccagtgcga tcttccctga cttctccctg | |
| | | | ctcacctgcc ttctctggat gggcctcgag gggtacaacc tctaccgact cgtggtggag | |
| | | | gtctttggca cctatgtccc tggctacctg ctcaagctga gcgccatggg ctggggcttc | |
| | | | cccatcttcc tggtagcgtt ggtggccctg gtggatgtgg acaactatgg ccccatcctc | |
| | | | ttggctgtgc ataggactcc agaggcgctc atctacctt ccatgtgctg gatccgggac | |
| | | | tccctggta gctacatcac caacctgggc cttctcagc tgggttttct gtccaacatg | |
| | | | gccatgctag ccacctggtt ggtgcagatc ctgcgggtgc gcccccacac ccaaaagtgg | |
| | | | tcacatgtgc tgacactgct gggcctcagc ctggtccttg gccctgccctg ggccttgatc | |
| | | | ttcttctcct ttgcttctgg caccttccag ctgtgctgcc tctacctttt cagcatcctc | |
| | | | acctccttcc aaggttctct catcttcatc tggtagctgt ccatgcggtt gcaggcccg | |
| | | | ggtggccctt cccctctgaa gagcaactca gactgcgcca ggtcctcccat cagctcgggc | |
| | | | agcacctcgt ccagcccgcat ctaggcctcc agcccacctt cccatgtgat gaagcagaga | |
| | | | tgcggcctcg tgcacactg cctgtggccc ccgagcccca ggccagtcag | |
| | | | ccgcagactt tggaaagccc aacgacctg gagagatggg ccgttgccat ggtggacgga | |
| | | | ctccccgggc tggggctttt gaattggcct tggggactac tccgctctca ctcagctccc | |

518 160330 G Protein-
Coupled-
Receptor
TM7XN1/GPR56 NP_005673.1 Homo sapiens

acggggactca gaagtgcgcc gccatgctgc ctagggtact gtccccacat ctgtcccaac
ccagctggag gcctggtctc tccttacaac ccctgggccc agctcattg ctgggggcca
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Like Peptide
2 Receptor NM_004246 Homo sapiens

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P

Homo
sapiens

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523 160390 Cadherin EGF NM_001408
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Pass G-Type
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(CELSR2)

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LAG Seven-
Pass G-Type
Receptor 2
(CELSR2)

Homo
sapiens

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525

160397 Latrophilin- NM_012302
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| SEQ ID NO: | LSID | Gene | Source ID | LPID | Peptide | SpeciesName |
|------------|------|-----------------|------------|------|------------------------|--------------|
| 692 | 127 | 5-HT1A Receptor | P08908 | 595 | CAPASFERKNERNAEAKRKM | Homo sapiens |
| 693 | 127 | 5-HT1A Receptor | P08908 | 608 | GRIFRAARFRIKTVKKVE | Homo sapiens |
| 694 | 127 | 5-HT1A Receptor | P08908 | 610 | RIPEDRSDPDACTISK | Homo sapiens |
| 695 | 127 | 5-HT1A Receptor | P08908 | 612 | RHGASAPQPKSVNGE | Homo sapiens |
| 696 | 128 | 5-HT1B Receptor | P28222 | 585 | KQTPNRTGKRLTRAQLTID | Homo sapiens |
| 697 | 128 | 5-HT1B Receptor | P28222 | 586 | SPGSTSSVTSINSRVPD | Homo sapiens |
| 698 | 128 | 5-HT1B Receptor | P28222 | 598 | KVRVSDALLEKKLMA | Homo sapiens |
| 699 | 128 | 5-HT1B Receptor | P28222 | 599 | ANLSSAPSQNCSAKD | Homo sapiens |
| 700 | 129 | 5-HT1D Receptor | P28221 | 577 | IKLADSALERKRISAA | Homo sapiens |
| 701 | 129 | 5-HT1D Receptor | P28221 | 588 | QEASNRSLNATETSEA | Homo sapiens |
| 702 | 129 | 5-HT1D Receptor | P28221 | 589 | RIYRAARNRILNPPSL | Homo sapiens |
| 703 | 129 | 5-HT1D Receptor | P28221 | 590 | KAGEEMSDCLVNTSQIS | Homo sapiens |
| 704 | 130 | 5-HT1E Receptor | P28566 | 815 | RHLSNRSTDQNSFASC | Homo sapiens |
| 705 | 130 | 5-HT1E Receptor | P28566 | 817 | CITEASMAIRPKITEKM | Homo sapiens |
| 706 | 130 | 5-HT1E Receptor | P28566 | 818 | DNDLDHPGERQGISST | Homo sapiens |
| 707 | 130 | 5-HT1E Receptor | P28566 | 2738 | CVSDFSTSDPTTEFEK | Homo sapiens |
| 708 | 130 | 5-HT1E Receptor | P28566 | 2739 | RIYHAAKSLYQKRGSSR | Homo sapiens |
| 709 | 131 | 5-HT1F Receptor | P30939 | 604 | ESGEKSTKSVSTSVYL | Homo sapiens |
| 710 | 131 | 5-HT1F Receptor | P30939 | 606 | DKCKISEEMSNFLAWLG | Homo sapiens |
| 711 | 131 | 5-HT1F Receptor | P30939 | 864 | IAKEEVNGQVLESGE | Homo sapiens |
| 712 | 131 | 5-HT1F Receptor | P30939 | 869 | STVRSLSREFKHEKSWR | Homo sapiens |
| 713 | 132 | 5-HT2A Receptor | CAA01675.1 | 1106 | DAFNWTVDSERNINLSC | Homo sapiens |
| 714 | 132 | 5-HT2A Receptor | CAA01675.1 | 1107 | FGLQDDSKVFKEGSC | Homo sapiens |
| 715 | 132 | 5-HT2A Receptor | CAA01675.1 | 1108 | PGSYTGRRTMQSISNEQKAC | Homo sapiens |
| 716 | 132 | 5-HT2A Receptor | CAA01675.1 | 1109 | CSMVALGKQHSEEAASKDQNSD | Homo sapiens |
| 717 | 132 | 5-HT2A Receptor | CAA01675.1 | 1110 | NTIPALAYKSSQLQMGQ | Homo sapiens |
| 718 | 133 | 5-HT2B Receptor | P41595 | 1111 | KGIETDVDPNPNITC | Homo sapiens |
| 719 | 133 | 5-HT2B Receptor | P41595 | 1112 | CSSPEKVAMILDGSRKDKA | Homo sapiens |
| 720 | 133 | 5-HT2B Receptor | P41595 | 1113 | RRTSTIGKKSVDTSNE | Homo sapiens |
| 721 | 133 | 5-HT2B Receptor | P41595 | 1114 | CNYRATKSVKTLKRSSK | Homo sapiens |
| 722 | 133 | 5-HT2B Receptor | P41595 | 1187 | SGLQTESIPEEMKQIVEEQG | Homo sapiens |
| 723 | 134 | 5-HT2C Receptor | P28335 | 1115 | CKRNTAEENSANPNQDQNA | Homo sapiens |
| 724 | 134 | 5-HT2C Receptor | P28335 | 1116 | GHTEEPGLSLDLFLKC | Homo sapiens |
| 725 | 134 | 5-HT2C Receptor | P28335 | 1117 | CNYKVEKKPPVPRQIPRV | Homo sapiens |
| 726 | 134 | 5-HT2C Receptor | P28335 | 1118 | IGLRDEEKVFNNTTC | Homo sapiens |

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| 727 | 134 | 5-HT2C Receptor | P28335 | 1119 | RHTNEPVIEKASDNEP | Homo sapiens |
| 728 | 134 | 5-HT2C Receptor | NP_000859.1 | 1826 | RNAVHSLVHLIGLLVWQCD | Homo sapiens |
| 729 | 134 | 5-HT2C Receptor | NP_000859.1 | 1829 | CDISVSPVAIVTDIFNTSD | Homo sapiens |
| 730 | 134 | 5-HT2C Receptor | NP_000859.1 | 1830 | DGGRFKFPDGVQNWPAIS | Homo sapiens |
| 731 | 136 | 5-HT4 Receptor | CAA73107.1 | 654 | NNIGIDUEKRFNQ | Homo sapiens |
| 732 | 136 | 5-HT4 Receptor | CAA73107.1 | 655 | ESRPQSDAQHSHRMR | Homo sapiens |
| 733 | 136 | 5-HT4 Receptor | CAA73107.1 | 656 | CDDERYRPSILGQTVP | Homo sapiens |
| 734 | 136 | 5-HT4 Receptor | CAA73107.1 | 657 | RDAVECGGWESQCHPPATS | Homo sapiens |
| 735 | 136 | 5-HT4 Receptor | CAA73107.1 | 2682 | VTAKEHAHQIQLQRAGASSESRP | Homo sapiens |
| 736 | 136 | 5-HT4 Receptor | CAA73107.1 | 2683 | KSFRRAFLIILCCDDE | Homo sapiens |
| 737 | 136 | 5-HT4 Receptor | CAA73107.1 | 2684 | VTAKEHAHQIQLQRAGA | Homo sapiens |
| 738 | 136 | 5-HT4 Receptor | CAA73107.1 | 2685 | KEHAHQIQLQRAGA | Homo sapiens |
| 739 | 136 | 5-HT4 Receptor | CAA73107.1 | 2686 | VTAKEHAHQIQLQR | Homo sapiens |
| 740 | 138 | 5-HT6 Receptor | P50406 | 649 | RTPRPGVESADSRRLATK | Homo sapiens |
| 741 | 138 | 5-HT6 Receptor | P50406 | 650 | CPRERQASLASPSLRIS | Homo sapiens |
| 742 | 138 | 5-HT6 Receptor | P50406 | 652 | PLFMRDFKRALGRFLPC | Homo sapiens |
| 743 | 138 | 5-HT6 Receptor | P50406 | 653 | RAAAAVNFFNIDPAEPE | Homo sapiens |
| 744 | 139 | 5-HT7 Receptor | P34969 | 658 | EVTASPTWDAPPDNASGC | Homo sapiens |
| 745 | 139 | 5-HT7 Receptor | P34969 | 659 | KAARKSAAKHKFPGFPRVE | Homo sapiens |
| 746 | 139 | 5-HT7 Receptor | P34969 | 660 | CANLSRLKHERKNISIFKR | Homo sapiens |
| 747 | 139 | 5-HT7 Receptor | P34969 | 663 | KLAERPERPEFVLRAC | Homo sapiens |
| 748 | 272 | Adenosine A1 Receptor | AAAI7544.1 | 8 | CHKPSILTYAIFLT | Homo sapiens |
| 749 | 272 | Adenosine A1 Receptor | AAAI7544.1 | 9 | NGSMGEPVIKCEFEKVISME | Homo sapiens |
| 750 | 272 | Adenosine A1 Receptor | AAAI7544.1 | 10 | NKKVSASSGDPQKYKGKELK | Homo sapiens |
| 751 | 272 | Adenosine A1 Receptor | AAAI7544.1 | 11 | NDHFRCCQPAPPIDEDLPEER | Homo sapiens |
| 752 | 272 | Adenosine A1 Receptor | P25099 | 286 | CQPKPPIDEDLPEEKAD | Rattus norvegicus |
| 753 | 272 | Adenosine A1 Receptor | P25099 | 302 | QPKPPIDEDLPEEKAD | Rattus norvegicus |
| 754 | 272 | Adenosine A1 Receptor | AAAI7544.1 | 303 | MPPSIAFGAAAYIGIEVL | Homo sapiens |
| 755 | 273 | Adenosine A2a Receptor | P29274 | 1237 | QGNTGLPDVELLSHELKGV | Homo sapiens |
| 756 | 273 | Adenosine A2a Receptor | P29274 | 1238 | MPIMGSSVITVELAIA | Homo sapiens |
| 757 | 273 | Adenosine A2a Receptor | P29274 | 1239 | RSHVLRQGEFKAAGT | Homo sapiens |
| 758 | 273 | Adenosine A2a Receptor | P11617 | 1240 | RIRERQTFRKIIRSH | Canis familiaris |
| 759 | 274 | Adenosine A2b Receptor | P29275 | 676 | KDSATNNCTEPWDGTTNES | Homo sapiens |
| 760 | 274 | Adenosine A2b Receptor | P29275 | 677 | CRQLQRTELMDSRITLQRE | Homo sapiens |
| 761 | 274 | Adenosine A2b Receptor | P29275 | 678 | RNRDRFYTHKIISRYLLC | Homo sapiens |
| 762 | 274 | Adenosine A2b Receptor | P29275 | 679 | CQADVKSNGGQAGVQP | Homo sapiens |

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| 763 | 274 | Adenosine A2b Receptor | P29275 | 680 | CVTLFQPAQGKKNPKW | Homo sapiens |
| 764 | 274 | Adenosine A2b Receptor | P29275 | 2714 | MILETQDALVVALELVAAAL | Homo sapiens |
| 765 | 275 | Adenosine A3 Receptor | P33765 | 683 | IFYIIRNKLSLNLSNKE | Homo sapiens |
| 766 | 275 | Adenosine A3 Receptor | P33765 | 686 | NMKLTSEYHRNVFLSC | Homo sapiens |
| 767 | 275 | Adenosine A3 Receptor | P33765 | 687 | AYKIKFKETYLLKAC | Homo sapiens |
| 768 | 275 | Adenosine A3 Receptor | P33765 | 689 | TGAFYGREFTAKSLF | Homo sapiens |
| 769 | 275 | Adenosine A3 Receptor | P33765 | 2296 | KRVTHRRRIWLALGLC | Homo sapiens |
| 770 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | CAA46587.1 | 4 | CPRVVLPEEIFFTIS | Homo sapiens |
| 771 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | CAA46587.1 | 5 | MGYLKPRGSFETADDIIDS | Homo sapiens |
| 772 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | CAA46587.1 | 6 | RYHSIVIMRRTVVVLT | Homo sapiens |
| 773 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | CAA46587.1 | 7 | AFRSPELRDAFKMIIFC | Homo sapiens |
| 774 | 376 | Alpha 1a-adrenoceptor | AAA35496.1 | 12 | RSSTRSLEAGVKRERGKASE | Homo sapiens |
| 775 | 376 | Alpha 1a-adrenoceptor | AAA35496.1 | 13 | KEPVPPDERFCGITEEAG | Homo sapiens |
| 776 | 376 | Alpha 1a-adrenoceptor | AAA35496.1 | 14 | RSTEMVQRLRMEAVQ | Homo sapiens |
| 777 | 376 | Alpha 1a-adrenoceptor | AAA35496.1 | 15 | PRPSCAPKSPACRTRSP | Homo sapiens |
| 778 | 377 | Alpha 1b-adrenoceptor | P35368 | 696 | KEMNSKELTLRIHSK | Homo sapiens |
| 779 | 377 | Alpha 1b-adrenoceptor | P35368 | 697 | GGSLERSQSRKDSLDDSGSC | Homo sapiens |
| 780 | 377 | Alpha 1b-adrenoceptor | P35368 | 698 | APEPPGRRGRHDSGPL | Homo sapiens |
| 781 | 377 | Alpha 1b-adrenoceptor | P35368 | 699 | KLLTEPESPGTDGGASNGGC | Homo sapiens |
| 782 | 379 | Alpha 1c-adrenoceptor | AAA93114.1 | 1245 | GSGMASAKTKTFSVR | Homo sapiens |
| 783 | 379 | Alpha 1c-adrenoceptor | AAA93114.1 | 1246 | RIPVGSRETFYRISKTDGVC | Homo sapiens |
| 784 | 379 | Alpha 1c-adrenoceptor | AAA93114.1 | 1247 | SSMPRGSARITVSKDQSSC | Homo sapiens |
| 785 | 379 | Alpha 1c-adrenoceptor | AAA93114.1 | 1248 | ESRGLSKGLKTDKSDS | Homo sapiens |
| 786 | 387 | Alpha 2a-adrenoceptor | P08913 | 1343 | ERRPNGLGPERSAGPG | Homo sapiens |
| 787 | 387 | Alpha 2a-adrenoceptor | P08913 | 1344 | PGEAPAGPRDIDALD | Homo sapiens |
| 788 | 387 | Alpha 2a-adrenoceptor | P08913 | 1345 | RGPRGKGKARASQVKPGD | Homo sapiens |
| 789 | 387 | Alpha 2a-adrenoceptor | P08913 | 1346 | RPGATGIGTPAAGPGE | Homo sapiens |
| 790 | 387 | Alpha 2a-adrenoceptor | P08913 | 1347 | RVGAAKASRWGRQNRE | Homo sapiens |
| 791 | 388 | Alpha 2b-adrenoceptor | P18089 | 1348 | IVKGDQGGPQPRGRPQC | Homo sapiens |

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| 792 | 388 | Alpha 2b-adrenoceptor | P18089 | 1349 | RSNRRGPRAKGGPGQGE | Homo sapiens |
| 793 | 388 | Alpha 2b-adrenoceptor | P18089 | 1350 | ASAREVNGHSKSTGEK | Homo sapiens |
| 794 | 388 | Alpha 2b-adrenoceptor | P18089 | 1351 | RGVGAIGGQWWRRRAH | Homo sapiens |
| 795 | 389 | Alpha 2c-adrenoceptor | P18825 | 1352 | RAPVGPDGASPTTENG | Homo sapiens |
| 796 | 389 | Alpha 2c-adrenoceptor | P18825 | 1353 | RTGTARPRPTWSRTR | Homo sapiens |
| 797 | 389 | Alpha 2c-adrenoceptor | P18825 | 1354 | ASRSPGPGGRLSRASS | Homo sapiens |
| 798 | 389 | Alpha 2c-adrenoceptor | P18825 | 1355 | RSVEFFLSRRRRARSSVC | Homo sapiens |
| 799 | 599 | Bradykinin B1 Receptor | P46663 | 798 | PMASGRQQRRRQARVTC | Homo sapiens |
| 800 | 599 | Bradykinin B1 Receptor | P46663 | 799 | NVHILASLRTREEVSR | Homo sapiens |
| 801 | 599 | Bradykinin B1 Receptor | P46663 | 800 | RVRGPKDSKTTALIT | Homo sapiens |
| 802 | 599 | Bradykinin B1 Receptor | P46663 | 801 | VGRLFRTKVVWELYKQC | Homo sapiens |
| 803 | 600 | Bradykinin B2 Receptor | AA802793.1 | 794 | FRIMKEYSDEGHNVAC | Homo sapiens |
| 804 | 600 | Bradykinin B2 Receptor | AA802793.1 | 795 | CTMQIMQVLRNINEMQKFKE | Homo sapiens |
| 805 | 600 | Bradykinin B2 Receptor | AA802793.1 | 796 | CQDERIDVITQIASFM | Homo sapiens |
| 806 | 600 | Bradykinin B2 Receptor | AA802793.1 | 797 | CRSEPIGMENSMGTLRTS | Homo sapiens |
| 807 | 635 | Beta-1 adrenoceptor | AAA51667.1 | 1357 | RVFREAQKQVKKIDSC | Homo sapiens |
| 808 | 635 | Beta-1 adrenoceptor | AAA51667.1 | 1358 | CERRFLGGPARPPSPS | Homo sapiens |
| 809 | 635 | Beta-1 adrenoceptor | AAA51667.1 | 1359 | ANGRAGKRPRPSRLVALRE | Homo sapiens |
| 810 | 635 | Beta-1 adrenoceptor | AAA51667.1 | 1360 | CARRAARRRHATHGDRPRAS | Homo sapiens |
| 811 | 635 | Beta-1 adrenoceptor | AAA51667.1 | 1361 | CLARPGPPSPGAASD | Homo sapiens |
| 812 | 635 | Beta-1 adrenoceptor | AAA51667.1 | 1362 | CGGGAADSDSSLDPE | Homo sapiens |
| 813 | 640 | Beta-2 adrenoceptor | NP_000015.1 | 2654 | KRQLQKIDKSEGRFHV | Homo sapiens |
| 814 | 640 | Beta-2 adrenoceptor | NP_000015.1 | 2656 | GEGSGYHVEQEKENKLLC | Homo sapiens |
| 815 | 640 | Beta-2 adrenoceptor | NP_000015.1 | 2662 | APNRSHAPDHDVTQQR | Homo sapiens |
| 816 | 640 | Beta-2 adrenoceptor | NP_000015.1 | 2663 | VPLVIMVFVSVRFQE | Homo sapiens |
| 817 | 643 | Beta-3 adrenoceptor | P13945 | 1390 | RGELGRFPPEESPAP | Homo sapiens |
| 818 | 643 | Beta-3 adrenoceptor | P13945 | 1391 | SRS LAPAPVGTCAPE | Homo sapiens |
| 819 | 643 | Beta-3 adrenoceptor | P13945 | 1392 | GVPACGRRPARLLPIRE | Homo sapiens |
| 820 | 643 | Beta-3 adrenoceptor | P13945 | 1393 | PSGVPAAARSSPAQPRLC | Homo sapiens |
| 821 | 688 | Opsin, blue-sensitive | NP_001699.1 | 1753 | EEFYLFKNISSVGPWDGPQ | Homo sapiens |
| 822 | 688 | Opsin, blue-sensitive | NP_001699.1 | 1754 | CGPDWYTVGTYRSESYT | Homo sapiens |
| 823 | 688 | Opsin, blue-sensitive | NP_001699.1 | 1755 | NNRNHGLDLRLVTIPS | Homo sapiens |
| 824 | 688 | Opsin, blue-sensitive | NP_001699.1 | 1756 | IMKMVCGKAMTDESDT | Homo sapiens |
| 825 | 692 | Bombesin Receptor | AAA35604.1 | 20 | SITNDTESSSVVSDNTNKC | Homo sapiens |
| | | Subtype-3 | | | | |
| | | Bombesin Receptor | AAA35604.1 | 21 | KAVVKPLERQPSNAILKTC | Homo sapiens |
| 826 | 692 | Subtype-3 | | | | |

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| 827 | 692 | Bombesin Receptor Subtype-3 | AAA35604.1 | 22 | RDPNKNMTFESCTSPVSKK | Homo sapiens |
| 828 | 692 | Bombesin Receptor Subtype-3 | AAA35604.1 | 23 | RTLYKSTLNIPTEEQSHARK | Homo sapiens |
| 829 | 692 | Bombesin Receptor Subtype-3 | AAA35604.1 | 24 | KSFQKHFKAQQLFCKKAERPE | Homo sapiens |
| 830 | 692 | Bombesin Receptor Subtype-3 | NP_001718.1 | 2286 | NKGWSGDNSPGIEALC | Homo sapiens |
| 831 | 692 | Bombesin Receptor Subtype-3 | NP_001718.1 | 2287 | QRQPHSPNQTLISITNDTE | Homo sapiens |
| 832 | 692 | Bombesin Receptor Subtype-3 | NP_001718.1 | 2288 | RPEPPVADTSLTLAV | Homo sapiens |
| 833 | 692 | Bombesin Receptor Subtype-3 | NP_001718.1 | 2289 | SEISVTSFTGCSVKQAEDR | Homo sapiens |
| 834 | 729 | CXC Chemokine Receptor 5 | P32302 | 1382 | ELDRLDNNDTSLVENHLC | Homo sapiens |
| 835 | 729 | CXC Chemokine Receptor 5 | P32302 | 1383 | SQGHNNNSLPRCTFSQE | Homo sapiens |
| 836 | 729 | CXC Chemokine Receptor 5 | P32302 | 1384 | CYVGWVHRLRQAQRPP | Homo sapiens |
| 837 | 729 | CXC Chemokine Receptor 5 | P32302 | 1385 | CQLFPSWRRSSLESENA | Homo sapiens |
| 838 | 735 | C-C Chemokine Receptor 1 | P32246 | 305 | TEDYDTITFEFDYGDATPC | Homo sapiens |
| 839 | 735 | C-C Chemokine Receptor 1 | P32246 | 1242 | ASMPGLYFSKTQWFEHTHC | Homo sapiens |
| 840 | 735 | C-C Chemokine Receptor 1 | P32246 | 1243 | CSLHFPHESLREWKLFQA | Homo sapiens |
| 841 | 735 | C-C Chemokine Receptor 1 | P32246 | 1244 | TLUSVFQDFLTHEC | Homo sapiens |
| 842 | 737 | C-C Chemokine Receptor 3 | P51677 | 1386 | CSALYPEDTVYSWRHF | Homo sapiens |
| 843 | 737 | C-C Chemokine Receptor 3 | P51677 | 1387 | PEFIFYETEELFEETLC | Homo sapiens |
| 844 | 737 | C-C Chemokine Receptor 3 | P51677 | 1388 | SSYQSLFGNDCERSK | Homo sapiens |
| 845 | 737 | C-C Chemokine Receptor 3 | P51677 | 1389 | GRYIPFLPSEKLERIS | Homo sapiens |
| 846 | 737 | C-C Chemokine Receptor 3 | P51677 | 1751 | DDVGLLCEKADTRALMAQFV | Homo sapiens |
| 847 | 738 | C-C Chemokine Receptor 4 | P51680 | 306 | MNATEVTDITQDETVMNSY | Mus musculus |
| 848 | 738 | C-C Chemokine Receptor 4 | P51679 | 348 | DESIYSNYLVESIPKPC | Homo sapiens |
| 849 | 738 | C-C Chemokine Receptor 4 | P51679 | 351 | DTPSSSYTQSTMDHDLHD | Homo sapiens |
| 850 | 738 | C-C Chemokine Receptor 4 | P51679 | 353 | LETLEVLQDDCTFE | Homo sapiens |
| 851 | 738 | C-C Chemokine Receptor 4 | P51679 | 491 | RNHTYCKTKYSLNSTWK | Homo sapiens |
| 852 | 741 | C-C Chemokine Receptor 7 | P32248 | 748 | CQDEVTDDYIGDNTTVD | Homo sapiens |
| 853 | 741 | C-C Chemokine Receptor 7 | P32248 | 846 | PELLYSDLQRSSEQAMRC | Homo sapiens |
| 854 | 741 | C-C Chemokine Receptor 7 | P32248 | 847 | QLRQWSSCRHIRRSMISVE | Homo sapiens |
| 855 | 741 | C-C Chemokine Receptor 7 | P32248 | 848 | GVKFRNDLFKFLKDLGC | Homo sapiens |
| 856 | 742 | C-C Chemokine Receptor 8 | P51685 | 359 | PDIFSSPCDAELIQTING | Homo sapiens |

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| 857 | 742 | C-C Chemokine Receptor 8 | P51685 | 360 | KILHQLKRCQNHINKAIR | Homo sapiens |
| 858 | 742 | C-C Chemokine Receptor 8 | P51685 | 362 | SQIFNYLGRQMPRESC | Homo sapiens |
| 859 | 742 | C-C Chemokine Receptor 8 | P51685 | 493 | FVGEKFKHLSEIFQKSC | Homo sapiens |
| 860 | 752 | CXC Chemokine Receptor 3 | P49682 | 1371 | ENFSSSYDYGENESDSC | Homo sapiens |
| 861 | 752 | CXC Chemokine Receptor 3 | P49682 | 1372 | CYAHILAVLLVSRGQRRLRA | Homo sapiens |
| 862 | 752 | CXC Chemokine Receptor 3 | P49682 | 1373 | MVLEVSDHQVLNDAEVAALL | Homo sapiens |
| 863 | 752 | CXC Chemokine Receptor 3 | P49682 | 1374 | CPNQRGLQRQPSRRRD | Homo sapiens |
| 864 | 753 | CXC Chemokine Receptor 4 | P30991 | 1376 | TEEMGSGDYDSMKPC | Homo sapiens |
| 865 | 753 | CXC Chemokine Receptor 4 | P30991 | 1377 | KKLRSMTDKYRLHLSVAD | Homo sapiens |
| 866 | 753 | CXC Chemokine Receptor 4 | P30991 | 1380 | CIISKLSHSGHQRKALK | Homo sapiens |
| 867 | 753 | CXC Chemokine Receptor 4 | P30991 | 1381 | KILSKGKRGGHSSVSTE | Homo sapiens |
| 868 | 755 | Complement Component 3a Receptor 1 | AAC50657.1 | 25 | ENRSLNIVQPPGEMNDRILD | Homo sapiens |
| 869 | 755 | Complement Component 3a Receptor 1 | AAC50657.1 | 26 | KIPSGFPIEDHETSPLDNSD | Homo sapiens |
| 870 | 755 | Complement Component 3a Receptor 1 | AAC50657.1 | 27 | RKKARQSIQIGILEAAFSEE | Homo sapiens |
| 871 | 755 | Complement Component 3a Receptor 1 | AAC50657.1 | 28 | PQTFQRPSADSLPRGSARLT | Homo sapiens |
| 872 | 758 | Complement Component 5a Receptor 1 | P21730 | 811 | DLNTPVDKTSNLTURVPD | Homo sapiens |
| 873 | 758 | Complement Component 5a Receptor 1 | P21730 | 812 | CGVDYSHDKRRERAIVAIVRL | Homo sapiens |
| 874 | 758 | Complement Component 5a Receptor 1 | P21730 | 813 | CYTFILLRTWSRRATRSTK | Homo sapiens |
| 875 | 758 | Complement Component 5a Receptor 1 | P21730 | 814 | QGRLRKSLPSLLRNVLTE | Homo sapiens |
| 876 | 767 | Calcitonin Receptor-like Receptor | Q16602 | 841 | AELEESPEDSIQLGVTR | Homo sapiens |
| 877 | 767 | Calcitonin Receptor-like Receptor | Q16602 | 843 | EFVLIPWRPEGKIAEEV | Homo sapiens |
| 878 | 767 | Calcitonin Receptor-like Receptor | Q16602 | 844 | RRNWNQYKIQFGNSFSNSE | Homo sapiens |
| 879 | 767 | Calcitonin Receptor-like Receptor | Q16602 | 845 | RSASYTVSTISDGPVSHDC | Homo sapiens |
| 880 | 832 | Cannabinoid Receptor 1 | AAB18200.1 | 29 | NDIQYEDIKGDMAKLG | Homo sapiens |
| 881 | 832 | Cannabinoid Receptor 1 | AAB18200.1 | 30 | KENEENIQCGENFMDIE | Homo sapiens |
| 882 | 832 | Cannabinoid Receptor 1 | AAB18200.1 | 31 | EDGKVQVTRPDGARMDIR | Homo sapiens |

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| 883 | 832 | Cannabinoid Receptor 1 | AAB18200.1 | 32 | CEGTAQPLDNSMGDS | Homo sapiens |
| 884 | 832 | Cannabinoid Receptor 1 | AAB18200.1 | 274 | MKSILDGLADTFR | Homo sapiens |
| 885 | 832 | Cannabinoid Receptor 1 | AAB18200.1 | 297 | NKLSSEKENEENIQ | Homo sapiens |
| 886 | 833 | Cannabinoid Receptor 2 | CAA52376.1 | 33 | KDGLDSNPMKIDYMLSGPQK | Homo sapiens |
| 887 | 833 | Cannabinoid Receptor 2 | CAA52376.1 | 34 | QDRQVPGMARMRLDVRLAKT | Homo sapiens |
| 888 | 833 | Cannabinoid Receptor 2 | CAA52376.1 | 35 | KEEAPRSSVTETEADGK | Homo sapiens |
| 889 | 833 | Cannabinoid Receptor 2 | CAA52376.1 | 36 | RSGEIRSSAHCHLAHWKCC | Homo sapiens |
| 890 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2644 | GRDPPAKDVMPPGPRQELL | Homo sapiens |
| 891 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2646 | CSPGYEPVSGAKTFKN | Homo sapiens |
| 892 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2647 | FSSFSEIITPTETC | Homo sapiens |
| 893 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2648 | CRPGWKPRHGIPNNQK | Homo sapiens |
| 894 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2649 | DGEAGRDPPAKDVMPPGPR | Homo sapiens |
| 895 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2650 | ANASLNLSHKKQAELE | Homo sapiens |
| 896 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2651 | RLSAVNSIFLSHNNTKE | Homo sapiens |
| 897 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2652 | KLTQKFSEINPDMKKL | Homo sapiens |
| 898 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2680 | KLVDELMEAPGDVEAL | Homo sapiens |
| 899 | 922 | Leukocyte Antigen CD97 | NP_001775.1 | 2681 | RFFDKVQDLGRDSKTS | Homo sapiens |
| 900 | 941 | EMR1 Hormone Receptor | Q14246 | 1180 | RAEYLDIESKVINKEC | Homo sapiens |
| 901 | 941 | EMR1 Hormone Receptor | Q14246 | 2675 | CVMHSWEGHIRPTRKPNITK | Homo sapiens |
| 902 | 941 | EMR1 Hormone Receptor | Q14246 | 2677 | CLLNGQVREEYKRWTGKTKP | Homo sapiens |
| 903 | 941 | EMR1 Hormone Receptor | Q14246 | 2678 | CLLNGQVREEYKRWTGK | Homo sapiens |
| 904 | 941 | EMR1 Hormone Receptor | Q14246 | 2679 | SGHLSQQGLKASCE | Homo sapiens |
| 905 | 965 | G Protein-Coupled Receptor GPR30 | CAA67133.1 | 1183 | GTALANGTGELSEHQ | Homo sapiens |
| 906 | 965 | G Protein-Coupled Receptor GPR30 | CAA67133.1 | 1184 | ADSLEVFNLHERWYD | Homo sapiens |
| 907 | 965 | G Protein-Coupled Receptor GPR30 | CAA67133.1 | 1185 | VRAHRHRLRPRRQKA | Homo sapiens |
| 908 | 965 | G Protein-Coupled Receptor GPR30 | CAA67133.1 | 1186 | DKLRLYIEQKTNLPALNRFC | Homo sapiens |
| 909 | 978 | Cholecystokinin A Receptor | P32238 | 820 | AKERKPSITSSGKYEDSDGC | Homo sapiens |
| 910 | 978 | Cholecystokinin A Receptor | P32238 | 821 | CYLQKTRPPRKLELRQ | Homo sapiens |
| 911 | 978 | Cholecystokinin A Receptor | P32238 | 822 | SANAWRAYDITASAERR | Homo sapiens |
| 912 | 978 | Cholecystokinin A Receptor | P32238 | 823 | CPNPGPPGARGEVEEEE | Homo sapiens |
| 913 | 1103 | Corticotropin releasing factor Receptor 2 | Q13324 | 453 | CEPILDDKQRYDLYRIAL | Homo sapiens |
| 914 | 1103 | Corticotropin releasing | Q13324 | 502 | QLVDHEVHESNEVWC | Homo sapiens |

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| 915 | 1103 | factor Receptor 2 | Q13324 | 505 | DPEGPVSYCNITLTDQIGTCW | Homo sapiens |
| 916 | 1103 | Corticotropin releasing factor Receptor 2 | LR43 | 507 | ALLEGYCHTMTLTNLGS | Homo sapiens |
| 917 | 1240 | Dopamine Receptor D1 | CAA41734.1 | 41 | SSHIEPRGSISKEC | Homo sapiens |
| 918 | 1240 | Dopamine Receptor D1 | CAA41734.1 | 42 | KAKPTSPSDGNATSLAETID | Homo sapiens |
| 919 | 1240 | Dopamine Receptor D1 | CAA41734.1 | 43 | CSQPESSFKMFKRE | Homo sapiens |
| 920 | 1240 | Dopamine Receptor D1 | CAA41734.1 | 44 | EDLKKEEAAGIARPLEK | Homo sapiens |
| 921 | 1241 | Dopamine Receptor D5 | P21918 | 1407 | PWEEDFWEPDVNAENC | Homo sapiens |
| 922 | 1241 | Dopamine Receptor D5 | P21918 | 1408 | CAPDTSLRASIKKETK | Homo sapiens |
| 923 | 1241 | Dopamine Receptor D5 | P21918 | 1409 | PNAVTPGNREVDNDEE | Homo sapiens |
| 924 | 1241 | Dopamine Receptor D5 | P21918 | 1410 | QTSPPDGDVPAESVWELDC | Homo sapiens |
| 925 | 1242 | Dopamine Receptor D2 | P14416 | 1403 | KRSSRAFRHLRAPLKGNC | Homo sapiens |
| 926 | 1242 | Dopamine Receptor D2 | P14416 | 1404 | CTVMKSNNGSFVNRRRV | Homo sapiens |
| 927 | 1242 | Dopamine Receptor D2 | P14416 | 1405 | KPEKNGHAKDHPKIAK | Homo sapiens |
| 928 | 1242 | Dopamine Receptor D2 | P14416 | 1406 | GKTRTSLKTMRRKLSQKE | Homo sapiens |
| 929 | 1243 | Dopamine Receptor D3 | P35462 | 1398 | KGRRRKRLTRQNSQC | Homo sapiens |
| 930 | 1243 | Dopamine Receptor D3 | P35462 | 1399 | CNSVRPGFPGQTLSPDP | Homo sapiens |
| 931 | 1243 | Dopamine Receptor D3 | P35462 | 1400 | CQDTALGGPGFQERGGE | Homo sapiens |
| 932 | 1243 | Dopamine Receptor D3 | P35462 | 1401 | KREEKTRNSLSPTIAP | Homo sapiens |
| 933 | 1243 | Dopamine Receptor D3 | P35462 | 1402 | STSLKGLQPRGVPLRE | Homo sapiens |
| 934 | 1244 | Dopamine Receptor D4 | P21917 | 1394 | VAVAVPLRYNRQGGSR | Homo sapiens |
| 935 | 1244 | Dopamine Receptor D4 | P21917 | 1395 | EVARRAKLHGAPRRP | Homo sapiens |
| 936 | 1244 | Dopamine Receptor D4 | P21917 | 1396 | PPSPTPAPRLPQDPC | Homo sapiens |
| 937 | 1244 | Dopamine Receptor D4 | P21917 | 1397 | PPQTTPQTRRRRAKITGRE | Homo sapiens |
| 938 | 1267 | Opioid Receptor, delta 1 (OPRD1) | AAA18789.1 | 222 | DAYPSAFPSAGANASGP | Homo sapiens |
| 939 | 1267 | Opioid Receptor, delta 1 (OPRD1) | AAA18789.1 | 224 | LVDIDRRDPLVVAALHLC | Homo sapiens |
| 940 | 1267 | Opioid Receptor, delta 1 (OPRD1) | AAA18789.1 | 225 | KRCFRQLCRKPCGRPD | Homo sapiens |
| 941 | 1267 | Opioid Receptor, delta 1 (OPRD1) | AAA18789.1 | 226 | SRPREATARERTVAC | Homo sapiens |
| 942 | 1424 | Duffy Antigen | AAC50055.1 | 1411 | TENSSQLDFEDVWNSS | Homo sapiens |
| 943 | 1424 | Duffy Antigen | AAC50055.1 | 1412 | NDSFPDGDYDANLEAAAPC | Homo sapiens |
| 944 | 1424 | Duffy Antigen | AAC50055.1 | 1413 | CHASLGHRLGAGQVPG | Homo sapiens |

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| 945 | 1424 | Duffy Antigen | AAC50055.1 | 1415 | FGAKGLKKALGMGPGP | Homo sapiens |
| 946 | 1451 | EBV-Induced Gene 2 | AAA35924.1 | 45 | KQEAERITCMEYPNFEET | Homo sapiens |
| 947 | 1451 | EBV-Induced Gene 2 | AAA35924.1 | 46 | KLFRTAKQNPLTEKSGVNKK | Homo sapiens |
| 948 | 1451 | EBV-Induced Gene 2 | AAA35924.1 | 47 | KSAPEENSREMTETQM | Homo sapiens |
| 949 | 1451 | EBV-Induced Gene 2 | AAA35924.1 | 48 | CKGYKRKVMRMILKRQ | Homo sapiens |
| 950 | 1486 | Endothelin B Receptor | BAA14398.1 | 54 | GEERGFPPDRATPLLQTAE | Homo sapiens |
| 951 | 1486 | Endothelin B Receptor | BAA14398.1 | 55 | RLAPAEVPGKDRTAGSP | Homo sapiens |
| 952 | 1486 | Endothelin B Receptor | BAA14398.1 | 56 | PRTSPPPCQGPIEKE | Homo sapiens |
| 953 | 1486 | Endothelin B Receptor | BAA14398.1 | 57 | EEKQSLEEKQSLKFKAND | Homo sapiens |
| 954 | 1488 | Endothelin A Receptor | AAB25530.1 | 49 | RYSINLSNHVDDFTTFRGTE | Homo sapiens |
| 955 | 1488 | Endothelin A Receptor | AAB25530.1 | 50 | NRRNGSLRIALSEHLK | Homo sapiens |
| 956 | 1488 | Endothelin A Receptor | AAB25530.1 | 51 | EYRGEQHKTCMLNATSK | Homo sapiens |
| 957 | 1488 | Endothelin A Receptor | AAB25530.1 | 53 | KNHDGNNHNITDRSSHKD | Homo sapiens |
| 958 | 1598 | Calcium-Sensing Receptor (CASR) | P41180 | 1425 | RPGIEKFREAEERDIC | Homo sapiens |
| 959 | 1598 | Calcium-Sensing Receptor (CASR) | P41180 | 1426 | CHLQEGAKGPLPVDIFLR | Homo sapiens |
| 960 | 1598 | Calcium-Sensing Receptor (CASR) | P41180 | 1427 | GHEESGDRFSNSTAFRLPC | Homo sapiens |
| 961 | 1598 | Calcium-Sensing Receptor (CASR) | P41180 | 1428 | KGIIEGEPTCCFECVECPDG | Homo sapiens |
| 962 | 1598 | Calcium-Sensing Receptor (CASR) | P41180 | 1429 | CSTAAHAFKVAARATLRNSN | Homo sapiens |
| 963 | 1598 | Calcium-Sensing Receptor (CASR) | P41180 | 1430 | PQKNAMAHNRNTHQNSLE | Homo sapiens |
| 964 | 1598 | Calcium-Sensing Receptor (CASR) | P41180 | 1431 | RPEVEDPEELSPALVYSSSQ | Homo sapiens |
| 965 | 1676 | Formyl Peptide Receptor-Like Receptor | NP_001453.1 | 1878 | ASWGGTPEERLKVAITMLIA | Homo sapiens |
| 966 | 1676 | Formyl Peptide Receptor-Like Receptor | NP_001453.1 | 1879 | SEDSAPTNDTAANSAS | Homo sapiens |
| 967 | 1676 | Formyl Peptide Receptor-Like Receptor | NP_001453.1 | 1880 | SYESAGYTVLRILPLVVL | Homo sapiens |
| 968 | 1676 | Formyl Peptide Receptor-Like Receptor | NP_001453.1 | 1881 | PVFLFLTVTIPNGD | Homo sapiens |
| 969 | 1676 | Formyl Peptide Receptor-Like Receptor | NP_001453.1 | 2612 | EERLKVAITMLTARGIIRFV | Homo sapiens |
| 970 | 1676 | Formyl Peptide Receptor-Like Receptor | NP_001453.1 | 2613 | ERALSSEDSAPTNDTAANSAS | Homo sapiens |

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| 971 | 1681 | Like Receptor | | | | 58 | QESKVTIPSDLPRIAELE | Homo sapiens |
| 972 | 1681 | Follicle Stimulating Hormone Receptor | AAA52477.1 | | | 59 | DVLEVEADVFSNLPK | Homo sapiens |
| 973 | 1681 | Follicle Stimulating Hormone Receptor | AAA52477.1 | | | 60 | RNGHCSSAPRVTSSTY | Homo sapiens |
| 974 | 1681 | Follicle Stimulating Hormone Receptor | AAA52477.1 | | | 61 | RQRSSLAEDNESSYRQFD | Homo sapiens |
| 975 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2231 | CHHRICHCSNRVFLCQE | Homo sapiens |
| 976 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2232 | LRVIQKGAFSGFGDLEK | Homo sapiens |
| 977 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2233 | LYVMSLLVLNVLAFAVIC | Homo sapiens |
| 978 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2234 | CNKSILRQEVDMYMTQARGQR | Homo sapiens |
| 979 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2236 | SDNNILEELPNDVFHGA | Homo sapiens |
| 980 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2238 | KLVALMEASLTYPSC | Homo sapiens |
| 981 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2241 | SFESVILWLNKNGIQEIHC | Homo sapiens |
| 982 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2248 | IHSLQKVLLDIQDNIHIT | Homo sapiens |
| 983 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2250 | KANNLLYITPEAFQNLP | Homo sapiens |
| 984 | 1681 | Follicle Stimulating Hormone Receptor | NP_000136.1 | | | 2251 | CYEMQAQIVRTISSTVH | Homo sapiens |
| 985 | 1726 | G Protein-Coupled Receptor RDC1 | AAA62370.1 | | | 1437 | TNTPSSRKKMVRVVVC | Homo sapiens |
| 986 | 1726 | G Protein-Coupled Receptor RDC1 | AAA62370.1 | | | 1439 | ARASASSDQEKHSSRK | Homo sapiens |
| 987 | 1726 | G Protein-Coupled Receptor RDC1 | AAA62370.1 | | | 1440 | KYSAKTGLTKLIDASRVSET | Homo sapiens |
| 988 | 1726 | G Protein-Coupled Receptor RDC1 | AAA62370.1 | | | 1893 | PDTYVLKTVTSASNNETVC | Homo sapiens |
| 989 | 1762 | Galanin Receptor GalR1 | AAA50767.1 | | | 192 | GNSLVITVLARSKPGKPR | Homo sapiens |
| 990 | 1762 | Galanin Receptor GalR1 | AAA50767.1 | | | 193 | PRASNQITFCWEQWDPDRHKK | Homo sapiens |

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| 991 | 1762 | Galanin Receptor GalR1 | AAA50767.1 | 194 | KKLNMSSKSEASKKKTAG | Homo sapiens |
| 992 | 1762 | Galanin Receptor GalR1 | AAA50767.1 | 195 | GNSLVITVLARSKP | Homo sapiens |
| 993 | 1762 | Galanin Receptor GalR1 | AAA50767.1 | 196 | RKDSHLSDTKENKSRID | Homo sapiens |
| 994 | 1808 | Gastric Inhibitory Polypeptide Receptor | P48546 | 1250 | QTAGELYQRWERYRREC | Homo sapiens |
| 995 | 1808 | Gastric Inhibitory Polypeptide Receptor | P48546 | 1251 | CENPEKNEAFDQRULER | Homo sapiens |
| 996 | 1808 | Gastric Inhibitory Polypeptide Receptor | P48546 | 1253 | CRLRSLGEEQRQLPERAFR | Homo sapiens |
| 997 | 1808 | Gastric Inhibitory Polypeptide Receptor | P48546 | 1276 | PTSRGLSSGTLPGPGNEA | Homo sapiens |
| 998 | 1813 | Gastrin-Releasing Peptide Receptor | P30550 | 829 | CNISSHSADLPVNDWDWHPG | Homo sapiens |
| 999 | 1813 | Gastrin-Releasing Peptide Receptor | P30550 | 830 | SDLHPFHEESTNQTFISC | Homo sapiens |
| 1000 | 1813 | Gastrin-Releasing Peptide Receptor | P30550 | 831 | YNLPVEGNIHVKKQIES | Homo sapiens |
| 1001 | 1813 | Gastrin-Releasing Peptide Receptor | P30550 | 832 | CQPGLIIRSHSTGRSTT | Homo sapiens |
| 1002 | 1814 | Cholecystokinin B Receptor | Q16144 | 1281 | CEPRIRGAGTRELELAIR | Homo sapiens |
| 1003 | 1814 | Cholecystokinin B Receptor | Q16144 | 1282 | RVRNQGGLPGAVHQNGRC | Homo sapiens |
| 1004 | 1814 | Cholecystokinin B Receptor | Q16144 | 1283 | LRFDGSDSDSQSRVR | Homo sapiens |
| 1005 | 1814 | Cholecystokinin B Receptor | Q16144 | 1284 | CRPETGAVGKDSGDCY | Homo sapiens |
| 1006 | 1834 | Glucagon Receptor | P47871 | 837 | DGLLRTRYSQIGDDL | Homo sapiens |
| 1007 | 1834 | Glucagon Receptor | P47871 | 838 | CGPDGQWVRGPRGQPWDAS | Homo sapiens |
| 1008 | 1834 | Glucagon Receptor | P47871 | 839 | CQMDGEEIEVQKEVAKMYSS | Homo sapiens |
| 1009 | 1834 | Glucagon Receptor | P47871 | 840 | TSNHRASSSPGHGPPSKE | Homo sapiens |
| 1010 | 1925 | Gonadotropin-Releasing Hormone Receptor | AAA35917.1 | 206 | KLQKWTQKKKEGKKLSRMK | Homo sapiens |
| 1011 | 1925 | Gonadotropin-Releasing Hormone Receptor | AAA35917.1 | 207 | DRSLAIRPLAKSNSKVGGQ | Homo sapiens |
| 1012 | 1925 | Gonadotropin-Releasing Hormone Receptor | AAA35917.1 | 208 | RMIHLADSSGQTKVFSQC | Homo sapiens |
| 1013 | 1925 | Gonadotropin-Releasing Hormone Receptor | AAA35917.1 | 209 | DPHELQLNQSKNIPRARLK | Homo sapiens |
| 1014 | 1945 | Opsin, green-sensitive | NP_000504.1 | 1746 | QRLAGRHPQDSYEDSTQSS | Homo sapiens |
| 1015 | 1945 | Opsin, green-sensitive | NP_000504.1 | 1747 | CKPFGNVRFDAKLAIVG | Homo sapiens |
| 1016 | 1945 | Opsin, green-sensitive | NP_000504.1 | 1748 | KTSCGPDVFGSSYPGVQS | Homo sapiens |

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| 1017 | 1945 | Opsin, green-sensitive | NP_000504.1 | 1750 | CILQLFGKKVDDGSELSS | Homo sapiens |
| 1018 | 1945 | Opsin, green-sensitive | NP_000504.1 | 1767 | STRGPEGPNYHIAPR | Homo sapiens |
| 1019 | 1945 | Opsin, green-sensitive | NP_000504.1 | 1768 | TNGLVLAAATMKFKLR | Homo sapiens |
| 1020 | 1945 | Opsin, green-sensitive | NP_000504.1 | 1769 | ELSSASKTEVSSVSSVSP | Homo sapiens |
| 1021 | 1951 | Growth Hormone | Q92847 | 581 | ADLDWDASPGNDSLGD | Homo sapiens |
| 1022 | 1951 | Secretagogue Receptor | Q92847 | 582 | GVEHENGTDPPWDTNEC | Homo sapiens |
| 1023 | 1951 | Secretagogue Receptor | Q92847 | 583 | KLWRRRRRGDAVVGASL | Homo sapiens |
| 1024 | 1951 | Secretagogue Receptor | Q92847 | 584 | SQRKLSLTKDESSRAW | Homo sapiens |
| 1025 | 1954 | Secretagogue Receptor | Q02643 | 833 | REDESACLQAAEEMPNTILG | Homo sapiens |
| 1026 | 1954 | Growth Hormone-Releasing Hormone Receptor | Q02643 | 834 | CPDFFSHFSSESGAVKRD | Homo sapiens |
| 1027 | 1954 | Growth Hormone-Releasing Hormone Receptor | Q02643 | 835 | VRKLEPAQGSLSHTQSQ | Homo sapiens |
| 1028 | 1954 | Growth Hormone-Releasing Hormone Receptor | Q02643 | 836 | RTEISRKWHGHDPPELL | Homo sapiens |
| 1029 | 2120 | Histamine H1 Receptor | P35367 | 1167 | GWNHFMQQTSVRRREDKC | Homo sapiens |
| 1030 | 2120 | Histamine H1 Receptor | P35367 | 1168 | CQHRELINRSLPSFSEIKLR | Homo sapiens |
| 1031 | 2120 | Histamine H1 Receptor | P35367 | 1169 | AGGGSVLKSPSQTPKE | Homo sapiens |
| 1032 | 2120 | Histamine H1 Receptor | P35367 | 1170 | KSPVVFSGQEDDREVDKLYC | Homo sapiens |
| 1033 | 2120 | Histamine H1 Receptor | P35367 | 1171 | TAPGKGKLRSGSNTGLD | Homo sapiens |
| 1034 | 2120 | Histamine H1 Receptor | P35367 | 1172 | KRLRSHSRGWVSGLHMNRE | Homo sapiens |
| 1035 | 2121 | Histamine H2 Receptor | P25021 | 1173 | NSRNETSKGNHTSKC | Homo sapiens |
| 1036 | 2121 | Histamine H2 Receptor | P25021 | 1174 | CITYYRIFKVARDDQAKR | Homo sapiens |
| 1037 | 2121 | Histamine H2 Receptor | P25021 | 1175 | RDQAKRNHISSWKAA | Homo sapiens |
| 1038 | 2121 | Histamine H2 Receptor | P25021 | 1176 | TAFVVRGLRGDDDAINE | Homo sapiens |
| 1039 | 2121 | Histamine H2 Receptor | P25021 | 1177 | HKTSLRSNASQLSRTQSRE | Homo sapiens |
| 1040 | 2783 | Opioid Receptor, kappa 1 (OPR1) | AAA63906.1 | 227 | DSNGSAGSEDAQLEPA | Homo sapiens |
| 1041 | 2783 | Opioid Receptor, kappa 1 (OPR1) | AAA63906.1 | 228 | KVREDVDVIECSLQFPDDDD | Homo sapiens |
| 1042 | 2783 | Opioid Receptor, kappa 1 (OPR1) | AAA63906.1 | 229 | RNTVQDPAYLRDIDGMNK | Homo sapiens |
| 1043 | 2783 | Opioid Receptor, kappa 1 | AAA63906.1 | 230 | CFPLKMRMERQSTSRVRN | Homo sapiens |

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| 1044 | 2964 | (OPRK1) Luteinizing Hormone/Choriogonadotro pin Receptor | Q14751 | 1432 | CNTGIRKFPDVTKVFSSEN | Homo sapiens |
| 1045 | 2964 | Luteinizing Hormone/Choriogonadotro pin Receptor | Q14751 | 1433 | KMHNGAFRGATGPKTLD | Homo sapiens |
| 1046 | 2964 | Luteinizing Hormone/Choriogonadotro pin Receptor | Q14751 | 1434 | CESTVRKVSNTKLYSS | Homo sapiens |
| 1047 | 2964 | Luteinizing Hormone/Choriogonadotro pin Receptor | Q14751 | 1435 | FAVRNPELMAINKDTK | Homo sapiens |
| 1048 | 2964 | Luteinizing Hormone/Choriogonadotro pin Receptor | Q14751 | 1436 | CKRRAELYRRKDFSAYTSN | Homo sapiens |
| 1049 | 2976 | Lysophosphatidic Acid Receptor Edg2 | AAC51139.1 | 210 | ERHITVFRMQLHTRMSNR | Homo sapiens |
| 1050 | 2976 | Lysophosphatidic Acid Receptor Edg2 | AAC51139.1 | 211 | RQRTMRMSRHSRGRNRD | Homo sapiens |
| 1051 | 2976 | Lysophosphatidic Acid Receptor Edg2 | AAC51139.1 | 212 | KHLATEWNTVSKLVM | Homo sapiens |
| 1052 | 2976 | Lysophosphatidic Acid Receptor Edg2 | AAC51139.1 | 213 | ENPTGPTESDRSASSLN | Homo sapiens |
| 1053 | 3038 | G Protein-Coupled Receptor MRG | AAB21255.1 | 184 | ESQISLSCSLCHSGDQEAQ | Homo sapiens |
| 1054 | 3038 | G Protein-Coupled Receptor MRG | AAB21255.1 | 185 | QGGKATRWAYVWQISAPM | Homo sapiens |
| 1055 | 3038 | G Protein-Coupled Receptor MRG | AAB21255.1 | 186 | DKPEVGRNKKAAAGIDPME | Homo sapiens |
| 1056 | 3038 | G Protein-Coupled Receptor MRG | AAB21255.1 | 187 | EQPHSTGHVENLLPREHRVD | Homo sapiens |
| 1057 | 3057 | Melanocortin 3 Receptor (MC3R) | P41968 | 451 | RLHVKRIAALPPADGVAPQ | Homo sapiens |
| 1058 | 3057 | Melanocortin 3 Receptor (MC3R) | P41968 | 452 | DPLVAFRSLELRNTFRE | Homo sapiens |
| 1059 | 3057 | Melanocortin 3 Receptor (MC3R) | P41968 | 562 | QAPFFSNQSSSAFCEQVFI | Homo sapiens |
| 1060 | 3057 | Melanocortin 3 Receptor (MC3R) | P41968 | 563 | IVHSDYLTEDQFIQHMDNI | Homo sapiens |

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| 1061 | 3058 | (MC3R) Melanocortin 4 Receptor (MC4R) | AAB33341.1 | 1032 | HSNASESLGKGYSDGGC | Homo sapiens |
| 1062 | 3058 | Melanocortin 4 Receptor (MC4R) | AAB33341.1 | 1033 | KRIAVLPGTGAIRQGA | Homo sapiens |
| 1063 | 3058 | Melanocortin 4 Receptor (MC4R) | AAB33341.1 | 1035 | NSTDTDAQSFTVNIDN | Homo sapiens |
| 1064 | 3058 | Melanocortin 4 Receptor (MC4R) | AAB33341.1 | 1469 | NSTHRGMHTSLHLWNRSSYR | Homo sapiens |
| 1065 | 3059 | Melanocortin 5 Receptor (MC5R) | P33032 | 1022 | ATEGNLSGPNVKNKSSPC | Homo sapiens |
| 1066 | 3059 | Melanocortin 5 Receptor (MC5R) | P33032 | 1024 | NKHLVIADAFVRHIDN | Homo sapiens |
| 1067 | 3059 | Melanocortin 5 Receptor (MC5R) | P33032 | 1025 | MNSSFHLHFLDLNLNAT | Homo sapiens |
| 1068 | 3059 | Melanocortin 5 Receptor (MC5R) | P33032 | 1026 | RYHHIMTARRSGAIIAG | Homo sapiens |
| 1069 | 3061 | Melanocortin 1 Receptor (MC1R) | AAD41352.1 | 1036 | QGSQRRLGSLNSTPT | Homo sapiens |
| 1070 | 3061 | Melanocortin 1 Receptor (MC1R) | AAD41352.1 | 1038 | EAGALVARAAVLQQILD | Homo sapiens |
| 1071 | 3061 | Melanocortin 1 Receptor (MC1R) | AAD41352.1 | 1039 | ALRYHSIVTLPIRARQA | Homo sapiens |
| 1072 | 3061 | Melanocortin 1 Receptor (MC1R) | AAD41352.1 | 1040 | CQHAQGIARLHKRQRP | Homo sapiens |
| 1073 | 3079 | Melatonin Receptor type 1a | AAB17720.1 | 214 | HSLKYDKLYSSKNSLC | Homo sapiens |
| 1074 | 3079 | Melatonin Receptor type 1a | AAB17720.1 | 215 | CTARVFFVDSSNDVADR | Homo sapiens |
| 1075 | 3079 | Melatonin Receptor type 1a | AAB17720.1 | 216 | QVRQRVKPDRPKLKP | Homo sapiens |
| 1076 | 3079 | Melatonin Receptor type 1a | AAB17720.1 | 217 | DSSNDVADRVKWKPSPLMTN | Homo sapiens |
| 1077 | 3080 | Melatonin Receptor type 1b | P49286 | 930 | AVRPGWSGAGSARPSR | Homo sapiens |
| 1078 | 3080 | Melatonin Receptor type 1b | P49286 | 931 | LVAFYDGGWALGEEHC | Homo sapiens |
| 1079 | 3080 | Melatonin Receptor type 1b | P49286 | 932 | LVLAARRKAKPESRLC | Homo sapiens |
| 1080 | 3080 | Melatonin Receptor type 1b | P49286 | 933 | CIGDASKGSHAEGLQSPA | Homo sapiens |
| 1081 | 3080 | Melatonin Receptor type 1b | P49286 | 934 | QEMAPQIPEGLFVTSY | Homo sapiens |
| 1082 | 3081 | Melatonin-Related Receptor | Q13585 | 751 | LAARDPAGQNPNDQLAE | Homo sapiens |
| 1083 | 3081 | Melatonin-Related Receptor | Q13585 | 752 | ARARAHARDQAREQDRAHAC | Homo sapiens |
| 1084 | 3081 | Melatonin-Related Receptor | Q13585 | 753 | DRASGHPKPHSRSSAY | Homo sapiens |
| 1085 | 3081 | Melatonin-Related Receptor | Q13585 | 754 | HPKPAAADNPELSASHC | Homo sapiens |

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| 1086 | 3081 | Melatonin-Related Receptor | Q13585 | 755 | DDSDLPESASSPAAGPT | Homo sapiens |
| 1087 | 3093 | Metabotropic Glutamate Receptor 1 | Q13255 | 879 | DDYKIQMINKSGVVRVC | Homo sapiens |
| 1088 | 3093 | Metabotropic Glutamate Receptor 1 | Q13255 | 880 | CRSNITFLNIFRRKKAG | Homo sapiens |
| 1089 | 3093 | Metabotropic Glutamate Receptor 1 | Q13255 | 881 | DTSTKTLNVVEEEDA | Homo sapiens |
| 1090 | 3093 | Metabotropic Glutamate Receptor 1 | Q13255 | 882 | ERFKLLQEVVYEHRE | Homo sapiens |
| 1091 | 3094 | Metabotropic Glutamate Receptor 2 | Q14416 | 891 | DFVRASLSRGADGSRHIC | Homo sapiens |
| 1092 | 3094 | Metabotropic Glutamate Receptor 2 | Q14416 | 892 | CVATSEKVGGRAMSRAAFEG | Homo sapiens |
| 1093 | 3094 | Metabotropic Glutamate Receptor 2 | Q14416 | 893 | CAAHSLRAVPFEQESK | Homo sapiens |
| 1094 | 3094 | Metabotropic Glutamate Receptor 2 | Q14416 | 894 | CDAMRPVNGRRLYKDF | Homo sapiens |
| 1095 | 3094 | Metabotropic Glutamate Receptor 2 | Q14416 | 895 | DAPFRPADTHNEVRFDR | Homo sapiens |
| 1096 | 3094 | Metabotropic Glutamate Receptor 2 | Q14416 | 896 | GKETAPERREVTLRC | Homo sapiens |
| 1097 | 3095 | Metabotropic Glutamate Receptor 3 | CAA54796.1 | 897 | GGLFPINEKGTGTEEC | Homo sapiens |
| 1098 | 3095 | Metabotropic Glutamate Receptor 3 | CAA54796.1 | 898 | EFVRASLTKVDEAEVMC | Homo sapiens |
| 1099 | 3095 | Metabotropic Glutamate Receptor 3 | CAA54796.1 | 899 | RSNIRKSYDSVIRELL | Homo sapiens |
| 1100 | 3095 | Metabotropic Glutamate Receptor 3 | CAA54796.1 | 900 | CDKHLAIDSSNVEQES | Homo sapiens |
| 1101 | 3095 | Metabotropic Glutamate Receptor 3 | CAA54796.1 | 902 | GTRRYTLAEKRETVILKC | Homo sapiens |
| 1102 | 3096 | Metabotropic Glutamate Receptor 4 | Q14833 | 909 | PSSLGKPKGHPHMINSRID | Homo sapiens |
| 1103 | 3096 | Metabotropic Glutamate Receptor 4 | Q14833 | 910 | CGSGGPPITTKPERVVG | Homo sapiens |
| 1104 | 3096 | Metabotropic Glutamate Receptor 4 | Q14833 | 911 | CKLSRHALKKGSHVKK | Homo sapiens |
| 1105 | 3096 | Metabotropic Glutamate Receptor 4 | Q14833 | 913 | CPRMDPVDGTQLLKYI | Homo sapiens |

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| 1106 | 3096 | Metabotropic Glutamate Receptor 4 | Q14833 | 914 | RIERMHWPGSGGQLPRSI | Homo sapiens |
| 1107 | 3097 | Metabotropic Glutamate Receptor 5 | P41594 | 883 | KDYFDYINVGSWDNGEL | Homo sapiens |
| 1108 | 3097 | Metabotropic Glutamate Receptor 5 | P41594 | 884 | KMDDDEVWSKSNIIIRSV | Homo sapiens |
| 1109 | 3097 | Metabotropic Glutamate Receptor 5 | P41594 | 885 | GETLRYKDRRLAQHKSEIE | Homo sapiens |
| 1110 | 3097 | Metabotropic Glutamate Receptor 5 | P41594 | 886 | NPNQTAVIKPFPKSTE | Homo sapiens |
| 1111 | 3097 | Metabotropic Glutamate Receptor 5 | P41594 | 887 | KALYDVAEAEHFPAPA | Homo sapiens |
| 1112 | 3097 | Metabotropic Glutamate Receptor 5 | P41594 | 888 | RSPSPISLTLHRAGSASRTD | Homo sapiens |
| 1113 | 3097 | Metabotropic Glutamate Receptor 5 | P41594 | 889 | RESPAAGPEAAAAKPD | Homo sapiens |
| 1114 | 3098 | Metabotropic Glutamate Receptor 6 | O15303 | 903 | QALURGRGDGDEVGVRC | Homo sapiens |
| 1115 | 3098 | Metabotropic Glutamate Receptor 6 | O15303 | 904 | KLSSGTQSDSDSTRKC | Homo sapiens |
| 1116 | 3098 | Metabotropic Glutamate Receptor 6 | O15303 | 905 | DVEALQWSGDPHEVPSSLC | Homo sapiens |
| 1117 | 3098 | Metabotropic Glutamate Receptor 6 | O15303 | 906 | RFQVDEFTCEACPGDM | Homo sapiens |
| 1118 | 3098 | Metabotropic Glutamate Receptor 6 | O15303 | 907 | GARPHSVIDYEEQRT | Homo sapiens |
| 1119 | 3099 | Metabotropic Glutamate Receptor 7 | Q14831 | 917 | CIAGSVRIPQERKDRITDFD | Homo sapiens |
| 1120 | 3099 | Metabotropic Glutamate Receptor 7 | Q14831 | 918 | NDEDIKQILAAAKRAD | Homo sapiens |
| 1121 | 3099 | Metabotropic Glutamate Receptor 7 | Q14831 | 921 | NIEDMQWKGKGVREIPASVC | Homo sapiens |
| 1122 | 3099 | Metabotropic Glutamate Receptor 7 | Q14831 | 2693 | IKQLLDTPNSRAWI | Homo sapiens |
| 1123 | 3099 | Metabotropic Glutamate Receptor 7 | Q14831 | 2694 | DPPNIIIDYDEHKTM | Homo sapiens |
| 1124 | 3100 | Metabotropic Glutamate Receptor 8 | O00222 | 922 | CANGDPPITFKPDKIS | Homo sapiens |
| 1125 | 3100 | Metabotropic Glutamate | O00222 | 923 | CPRMSTIDGKELLYIRA | Homo sapiens |

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| 1126 | 3100 | Receptor 8 | Metabotropic Glutamate Receptor 8 | O00222 | 924 | KVEDMQWAHREHHPASVC | Homo sapiens |
| 1127 | 3100 | Receptor 8 | Metabotropic Glutamate Receptor 8 | O00222 | 925 | CESLETNTSSSTKITYSYS | Homo sapiens |
| 1128 | 3100 | Receptor 8 | Metabotropic Glutamate Receptor 8 | O00222 | 1894 | KFYWILTMQQRTHSQEYAH | Homo sapiens |
| 1129 | 3212 | Receptor 8 | Opioid mu-type Receptor | AAA20580.1 | 231 | DGNLSDPCGPNRTNLGGRDS | Homo sapiens |
| 1130 | 3212 | Receptor 8 | Opioid mu-type Receptor | AAA20580.1 | 232 | DRTNHQLENLEAETAPLP | Homo sapiens |
| 1131 | 3212 | Receptor 8 | Opioid mu-type Receptor | AAA20580.1 | 233 | IKALVTIPETTFQTVS | Homo sapiens |
| 1132 | 3212 | Receptor 8 | Opioid mu-type Receptor | AAA20580.1 | 234 | RIRGNTRDHPSTANTVDR | Homo sapiens |
| 1133 | 3223 | Receptor M1 | Muscarinic acetylcholine Receptor M1 | AAA35686.1 | 1325 | SERSQPGAEGSPETPPGRC | Homo sapiens |
| 1134 | 3223 | Receptor M1 | Muscarinic acetylcholine Receptor M1 | AAA35686.1 | 1326 | CRAPRLQLQAYSWKEE | Homo sapiens |
| 1135 | 3223 | Receptor M1 | Muscarinic acetylcholine Receptor M1 | AAA35686.1 | 1327 | SSEGEPEGSEVVIKMP | Homo sapiens |
| 1136 | 3223 | Receptor M1 | Muscarinic acetylcholine Receptor M1 | AAA35686.1 | 1328 | KQPPRSSPNTVKRPTKKGRD | Homo sapiens |
| 1137 | 3223 | Receptor M1 | Muscarinic acetylcholine Receptor M1 | AAA35686.1 | 1329 | CRWDKRRWRKIPKRP | Homo sapiens |
| 1138 | 3224 | Receptor M2 | Muscarinic acetylcholine Receptor M2 | AAA51570.1 | 1330 | EHNKIQNGKAPRDPVTENC | Homo sapiens |
| 1139 | 3224 | Receptor M2 | Muscarinic acetylcholine Receptor M2 | AAA51570.1 | 1331 | DTSVSASVASNMRDDE | Homo sapiens |
| 1140 | 3224 | Receptor M2 | Muscarinic acetylcholine Receptor M2 | AAA51570.1 | 1332 | ENTVSTSLGHSKDENSEKQTC | Homo sapiens |
| 1141 | 3224 | Receptor M2 | Muscarinic acetylcholine Receptor M2 | AAA51570.1 | 1333 | DEKQNVIVARKIVKMTK | Homo sapiens |
| 1142 | 3224 | Receptor M2 | Muscarinic acetylcholine Receptor M2 | AAA51570.1 | 1831 | RIKDKKEPVANQDPVPSL | Homo sapiens |
| 1143 | 3226 | Receptor M4 | Muscarinic acetylcholine Receptor M4 | AAA51571.1 | 218 | SRSRVHHRPEGPKEKKAKT | Homo sapiens |
| 1144 | 3226 | Receptor M4 | Muscarinic acetylcholine Receptor M4 | AAA51571.1 | 219 | KKPRPGGRRGGLRNGKLEEA | Homo sapiens |
| 1145 | 3226 | Receptor M4 | Muscarinic acetylcholine Receptor M4 | AAA51571.1 | 220 | DKDTSNESSSGSATQNTKER | Homo sapiens |
| 1146 | 3226 | Receptor M4 | Muscarinic acetylcholine Receptor M4 | AAA51571.1 | 221 | RPAANVARKFASIRNQVRK | Homo sapiens |

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| 1147 | 3227 | Muscarinic Acetylcholine Receptor M5 | P08912 | 1334 | KAEKRKPAHRAFRSC | Homo sapiens |
| 1148 | 3227 | Muscarinic Acetylcholine Receptor M5 | P08912 | 1335 | CSSYPSEDEDKPATD | Homo sapiens |
| 1149 | 3227 | Muscarinic Acetylcholine Receptor M5 | P08912 | 1336 | KESPGEEFSAEETEFTV | Homo sapiens |
| 1150 | 3227 | Muscarinic Acetylcholine Receptor M5 | P08912 | 1337 | KFRLVVKADGNQETNNGC | Homo sapiens |
| 1151 | 3227 | Muscarinic Acetylcholine Receptor M5 | P08912 | 1338 | KEPSTKGLNPNPSHQM | Homo sapiens |
| 1152 | 3378 | Tachykinin Receptor 3 | NP_001050.1 | 1757 | PAAETWIDGGGGVGAD | Homo sapiens |
| 1153 | 3378 | Tachykinin Receptor 3 | NP_001050.1 | 1759 | PSQPWANLTNQFVQPSWR | Homo sapiens |
| 1154 | 3378 | Tachykinin Receptor 3 | NP_001050.1 | 1760 | SRKKRAIPRDPSPFNGC | Homo sapiens |
| 1155 | 3378 | Tachykinin Receptor 3 | NP_001050.1 | 2265 | ADAVNLATSLAAGAA | Homo sapiens |
| 1156 | 3378 | Tachykinin Receptor 3 | NP_001050.1 | 2290 | SPSALGLPVASAPSPQP | Homo sapiens |
| 1157 | 3380 | Neuromedin B Receptor | P28336 | 824 | ERDFLPASDGTITELVIRC | Homo sapiens |
| 1158 | 3380 | Neuromedin B Receptor | P28336 | 825 | KTLIKSAHNLPGEVNE | Homo sapiens |
| 1159 | 3380 | Neuromedin B Receptor | P28336 | 826 | SEVARISSLDNSSFTAC | Homo sapiens |
| 1160 | 3380 | Neuromedin B Receptor | P28336 | 828 | CGRKSYQERGTSYLLSSA | Homo sapiens |
| 1161 | 3404 | Neuropeptide Y Receptor Type 2 | P49146 | 1057 | RGELVPDPEPELIDST | Homo sapiens |
| 1162 | 3404 | Neuropeptide Y Receptor Type 2 | P49146 | 1058 | CIVYHLESKISKRISF | Homo sapiens |
| 1163 | 3404 | Neuropeptide Y Receptor Type 2 | P49146 | 1059 | REYSLEIIPDFEIVAC | Homo sapiens |
| 1164 | 3404 | Neuropeptide Y Receptor Type 2 | P49146 | 1060 | NDHYHQRRRQKTKMLVC | Homo sapiens |
| 1165 | 3404 | Neuropeptide Y Receptor Type 2 | P49146 | 1061 | CEQRIDAIHSEVSVTFKAKK | Homo sapiens |
| 1166 | 3404 | Neuropeptide Y Receptor Type 2 | P49146 | 2297 | MGPIGAEADENQTV EEMKVE | Homo sapiens |
| 1167 | 3404 | Neuropeptide Y Receptor Type 2 | P49146 | 2298 | SEVSVTFKAKKNLEVRKNSG | Homo sapiens |
| 1168 | 3405 | Neuropeptide Y Receptor Type 4 | P50391 | 1068 | CVTVRQKEKANVTNLL | Homo sapiens |
| 1169 | 3405 | Neuropeptide Y Receptor Type 4 | P50391 | 1069 | KNHSALEFLADKWC | Homo sapiens |
| 1170 | 3405 | Neuropeptide Y Receptor | P50391 | 1070 | CYARIYRRLQRQGRVFHKG | Homo sapiens |

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| 1171 | 3405 | Type 4 Neuropeptide Y Receptor | P50391 | 1071 | CQQSAPLEESEHLPLST | Homo sapiens |
| 1172 | 3405 | Type 4 Neuropeptide Y Receptor | P50391 | 2275 | SEHCQDSVDVMVFIVTS | Homo sapiens |
| 1173 | 3406 | Type 4 Neuropeptide Y Receptor | Q15761 | 1072 | MKKRNQKTTVNFIGN | Homo sapiens |
| 1174 | 3406 | Type 5 Neuropeptide Y Receptor | Q15761 | 1073 | CGLSNKENRLEENEMI | Homo sapiens |
| 1175 | 3406 | Type 5 Neuropeptide Y Receptor | Q15761 | 1074 | NLTLHPSKSGPQVKL | Homo sapiens |
| 1176 | 3406 | Type 5 Neuropeptide Y Receptor | Q15761 | 1075 | SFIKKHRRRYSKKTAC | Homo sapiens |
| 1177 | 3406 | Type 5 Neuropeptide Y Receptor | Q15761 | 1076 | PERPSQENHSRILPEN | Homo sapiens |
| 1178 | 3406 | Type 5 Neuropeptide Y Receptor | Q15761 | 1077 | CFEIKPEENSVDVHELRV | Homo sapiens |
| 1179 | 3408 | Type 5 Neurotensin Receptor Type 1 | P30989 | 935 | RVLAAPSSSELDVNTDIYS | Homo sapiens |
| 1180 | 3408 | Type 5 Neurotensin Receptor Type 1 | P30989 | 936 | CHPFKAKTLMRSRTKK | Homo sapiens |
| 1181 | 3408 | Type 5 Neurotensin Receptor Type 1 | P30989 | 937 | GEGNRSADGGHAGGLVC | Homo sapiens |
| 1182 | 3408 | Type 5 Neurotensin Receptor Type 1 | P30989 | 938 | RQAAEQGGQVCTVGGEHS | Homo sapiens |
| 1183 | 3408 | Type 5 Neurotensin Receptor Type 1 | P30989 | 939 | CPVWRRRRKRPAFSRKADS | Homo sapiens |
| 1184 | 3452 | Oplate Receptor-Like 1 (OPRL1) | P41146 | 940 | CHPIRALDVRTSSKAQA | Homo sapiens |
| 1185 | 3452 | Oplate Receptor-Like 1 (OPRL1) | P41146 | 941 | PVAIMGSAQVEDEEIEC | Homo sapiens |
| 1186 | 3452 | Oplate Receptor-Like 1 (OPRL1) | P41146 | 942 | GVQPSSETAVAILRFC | Homo sapiens |
| 1187 | 3452 | Oplate Receptor-Like 1 (OPRL1) | P41146 | 943 | CASALRRDVQVSDRVRSIK | Homo sapiens |
| 1188 | 3513 | Ocular Albinism 1 (Nettleship-Falls) (OA1) | NP_000264.1 | 2123 | TPEPRPRTQPMASPRLGTFC | Homo sapiens |
| 1189 | 3513 | Ocular Albinism 1 (Nettleship-Falls) (OA1) | NP_000264.1 | 2124 | TAVASLLKGRQGIYTE | Homo sapiens |

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| 1190 | 3513 | Ocular Albinism 1 (Nettleship-Falls) (OA1) | NP_000264.1 | 2125 | EMQTDINGGSLKPVRTAAK | Homo sapiens |
| 1191 | 3513 | Ocular Albinism 1 (Nettleship-Falls) (OA1) | NP_000264.1 | 2126 | CSLGFQSPRKEIQWES | Homo sapiens |
| 1192 | 3513 | Ocular Albinism 1 (Nettleship-Falls) (OA1) | NP_000264.1 | 2127 | SEGSDASTIEHTASESC | Homo sapiens |
| 1193 | 3513 | Ocular Albinism 1 (Nettleship-Falls) (OA1) | NP_000264.1 | 2128 | NPASGKVSQVGGQTSD | Homo sapiens |
| 1194 | 3544 | UDP-glucose Receptor (K1AA0001) | NP_055694.1 | 1486 | CKKLHPLKAGQNDLDIRIK | Homo sapiens |
| 1195 | 3544 | UDP-glucose Receptor (K1AA0001) | NP_055694.1 | 1500 | KIVKPLWTSFIQSVSYSKLL | Homo sapiens |
| 1196 | 3544 | UDP-glucose Receptor (K1AA0001) | NP_055694.1 | 1502 | TAITKKIFKSHLKSSRNSTIS | Homo sapiens |
| 1197 | 3544 | UDP-glucose Receptor (K1AA0001) | NP_055694.1 | 1503 | VKKKSSRNIFSVFVFFVC | Homo sapiens |
| 1198 | 3582 | Oxytocin Receptor | CAA46097.1 | 244 | AEGNRTAGPPRRNEALARVE | Homo sapiens |
| 1199 | 3582 | Oxytocin Receptor | CAA46097.1 | 245 | RLAVLATWLGCLVASAP | Homo sapiens |
| 1200 | 3582 | Oxytocin Receptor | CAA46097.1 | 246 | PEGAAAGDGGRVALAR | Homo sapiens |
| 1201 | 3582 | Oxytocin Receptor | CAA46097.1 | 247 | YLGRRRLGETSASKKSNSSS | Homo sapiens |
| 1202 | 3589 | Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2) | AAC04923.1 | 854 | MQRIGDVLGSSSEDFRR | Homo sapiens |
| 1203 | 3589 | Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2) | AAC04923.1 | 855 | ARGGRVTCCHDTSAPEL | Homo sapiens |
| 1204 | 3589 | Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2) | AAC04923.1 | 856 | KPAYGTSGGLPRAKPK | Homo sapiens |
| 1205 | 3589 | Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2) | AAC04923.1 | 857 | TGFPATPARRRRLGLRRSD | Homo sapiens |
| 1206 | 3595 | Purinergic Receptor P2Y1 | CAA07339.1 | 386 | RYSGVVYPLKSLGRLKKKN | Homo sapiens |
| 1207 | 3595 | Purinergic Receptor P2Y1 | CAA07339.1 | 387 | SGTGVRKNKTTTCVD | Homo sapiens |
| 1208 | 3595 | Purinergic Receptor P2Y1 | CAA07339.1 | 388 | RALVYKDLDNSPLRRKS | Homo sapiens |
| 1209 | 3595 | Purinergic Receptor P2Y1 | CAA07339.1 | 389 | DTFRRRLSRATRKASRRSE | Homo sapiens |
| 1210 | 3596 | Purinergic Receptor P2Y5 | P43657 | 850 | FVQSTHSQGNNAEAC | Homo sapiens |
| 1211 | 3596 | Purinergic Receptor P2Y5 | P43657 | 851 | MVLKTLTKPVTLRSKI | Homo sapiens |
| 1212 | 3596 | Purinergic Receptor P2Y5 | P43657 | 852 | TIQNSIKMKNNWSVRRSD | Homo sapiens |
| 1213 | 3596 | Purinergic Receptor P2Y5 | P43657 | 853 | SEVHGAENFIQHNLQTLK | Homo sapiens |
| 1214 | 3597 | Purinergic Receptor P2Y6 | Q15077 | 874 | CTSRRLTRTAVWTLN | Homo sapiens |
| 1215 | 3597 | Purinergic Receptor P2Y6 | Q15077 | 875 | AQERRGKAARMAVVV | Homo sapiens |

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| 1216 | 3597 | Purinergic Receptor P2Y6 | Q15077 | 876 | TKTAYLAVRSTPGVPC | Homo sapiens |
| 1217 | 3597 | Purinergic Receptor P2Y6 | Q15077 | 877 | KKFRRRPHLLQKLTAK | Homo sapiens |
| 1218 | 3597 | Purinergic Receptor P2Y6 | Q15077 | 2726 | CHPLAPWHKRGGRRAAW | Homo sapiens |
| 1219 | 3599 | G Protein-Coupled Receptor 23 (GPR23) | Q99677 | 870 | CFRMKMRSETAIFITN | Homo sapiens |
| 1220 | 3599 | G Protein-Coupled Receptor 23 (GPR23) | Q99677 | 871 | RTLKRPATLSQIGTNKK | Homo sapiens |
| 1221 | 3599 | G Protein-Coupled Receptor 23 (GPR23) | Q99677 | 872 | ESFQKSFYINAHIRMES | Homo sapiens |
| 1222 | 3599 | G Protein-Coupled Receptor 23 (GPR23) | Q99677 | 873 | KTETPLTKPSLPAIQEE | Homo sapiens |
| 1223 | 3599 | G Protein-Coupled Receptor 23 (GPR23) | Q99677 | 1895 | SSLRPRLGNATANNTCIVD | Homo sapiens |
| 1224 | 3638 | Parathyroid Hormone Receptor 2 (PTHr2) | AAC50157.1 | 248 | KAKVQCELNITAGLQEGE | Homo sapiens |
| 1225 | 3638 | Parathyroid Hormone Receptor 2 (PTHr2) | AAC50157.1 | 249 | ESLIMQDDPPQNSIEATSVDK | Homo sapiens |
| 1226 | 3638 | Parathyroid Hormone Receptor 2 (PTHr2) | AAC50157.1 | 250 | NSEQDCLPHSFHEETKE | Homo sapiens |
| 1227 | 3638 | Parathyroid Hormone Receptor 2 (PTHr2) | AAC50157.1 | 251 | EETKEDSGRQGGDDILMEKPS | Homo sapiens |
| 1228 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | Q03431 | 761 | CEKRLKEVLQRPASIMESDK | Homo sapiens |
| 1229 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | Q03431 | 762 | ESEEDKEAPTGSRYRGRPC | Homo sapiens |
| 1230 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | Q03431 | 763 | LYSGATLDEAERLTEEEELR | Homo sapiens |
| 1231 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | Q03431 | 765 | KDDGFLNGSCSGLDEEASG | Homo sapiens |
| 1232 | 3732 | PACAP Receptor Type 1 | P41586 | 944 | CLEKIQRANELMGFNDSS | Homo sapiens |
| 1233 | 3732 | PACAP Receptor Type 1 | P41586 | 945 | CPELFRIFNPDQVWETET | Homo sapiens |
| 1234 | 3732 | PACAP Receptor Type 1 | P41586 | 946 | DSNSLDLSDMGVVSRLNC | Homo sapiens |
| 1235 | 3732 | PACAP Receptor Type 1 | P41586 | 948 | IKRKWRPSWKVNRVFAVD | Homo sapiens |
| 1236 | 3732 | PACAP Receptor Type 1 | P41586 | 2292 | ESDFGDSNSLDLSDMGVVSRL | Homo sapiens |
| 1237 | 3844 | Apelin Receptor | AAA18954.1 | 62 | RTGDLNNTTKVQC | Homo sapiens |
| 1238 | 3844 | Apelin Receptor | AAA18954.1 | 63 | RSSREKRRSADIFIAS | Homo sapiens |
| 1239 | 3844 | Apelin Receptor | AAA18954.1 | 64 | QTIAGHFKEKRIEGLRKRRR | Homo sapiens |
| 1240 | 3844 | Apelin Receptor | AAA18954.1 | 65 | GPNMKGKGGEGMHEKSIPIYSQ | Homo sapiens |

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| 1241 | 3845 | Chemokine-Like Receptor 1 (CMKLR1) | LR39 | 447 | RMEDEDYNTSISYGDEYPD | Homo sapiens |
| 1242 | 3845 | Chemokine-Like Receptor 1 (CMKLR1) | Q99788 | 448 | DSIVVLEDLSPEARVTR | Homo sapiens |
| 1243 | 3845 | Chemokine-Like Receptor 1 (CMKLR1) | Q99788 | 449 | LTIVCKLHRNRLAKTKPKF | Homo sapiens |
| 1244 | 3845 | Chemokine-Like Receptor 1 (CMKLR1) | Q99788 | 450 | RSFTKMSSMNERTSMNIRE | Homo sapiens |
| 1245 | 3846 | Sphingolipid Receptor Edg1 | AAA52336.1 | 1010 | TRSRRLTRKNISKASRSSE | Homo sapiens |
| 1246 | 3846 | Sphingolipid Receptor Edg1 | AAA52336.1 | 1011 | CPSGDSAGKFKRPIIAG | Homo sapiens |
| 1247 | 3846 | Sphingolipid Receptor Edg1 | AAA52336.1 | 1012 | CPSGDSAGKFKRPIIAGME | Homo sapiens |
| 1248 | 3846 | Sphingolipid Receptor Edg1 | AAA52336.1 | 1013 | RSKSDNSSHPQKDEGD | Homo sapiens |
| 1249 | 3847 | Sphingolipid Receptor Edg3 | Q99500 | 1028 | ERHLTIKIMRPYDANK | Homo sapiens |
| 1250 | 3847 | Sphingolipid Receptor Edg3 | Q99500 | 1029 | LVKSSSRKVANHINSE | Homo sapiens |
| 1251 | 3847 | Sphingolipid Receptor Edg3 | Q99500 | 1030 | SPKVKEDLPHDTPSSC | Homo sapiens |
| 1252 | 3847 | Sphingolipid Receptor Edg3 | Q99500 | 1031 | CLVRGRGARASPIQPALD | Homo sapiens |
| 1253 | 3847 | Sphingolipid Receptor Edg3 | Q99500 | 1752 | REHYQVWGKLAGRLKEASE | Homo sapiens |
| 1254 | 3848 | C-C Chemokine Receptor 9 | P51686 | 958 | RAHTWREKRLLYSKMVC | Homo sapiens |
| 1255 | 3848 | C-C Chemokine Receptor 9 | P51686 | 959 | KEESGIAICTMVYPSDEST | Homo sapiens |
| 1256 | 3848 | C-C Chemokine Receptor 9 | P51686 | 960 | QAKSKHKALKVTIT | Homo sapiens |
| 1257 | 3848 | C-C Chemokine Receptor 9 | P51686 | 961 | GERFRDLVKTLKNLGC | Homo sapiens |
| 1258 | 3849 | G Protein-Coupled Receptor GPR1 | AAA64592.1 | 74 | ENYSYDLDYYSLESDLEEK | Homo sapiens |
| 1259 | 3849 | G Protein-Coupled Receptor GPR1 | AAA64592.1 | 75 | RDTVEFNHTLCYNNFQKHD | Homo sapiens |
| 1260 | 3849 | G Protein-Coupled Receptor GPR1 | AAA64592.1 | 76 | SKKFQARFRSSVAEILK | Homo sapiens |
| 1261 | 3849 | G Protein-Coupled Receptor GPR1 | AAA64592.1 | 77 | GTVSEQLRNSETKNLC | Homo sapiens |
| 1262 | 3850 | G Protein-Coupled Receptor 10 (GPR10) | O75194 | 1087 | HPLRRRISLRISAYAV | Homo sapiens |
| 1263 | 3850 | G Protein-Coupled Receptor 10 (GPR10) | O75194 | 1088 | CEEFWGSQERQRQLYA | Homo sapiens |
| 1264 | 3850 | G Protein-Coupled Receptor 10 (GPR10) | O75194 | 1089 | SVYRVSVKLRNRVPGC | Homo sapiens |
| 1265 | 3850 | G Protein-Coupled Receptor 10 (GPR10) | O75194 | 1090 | CVTQSQADWDRARRR | Homo sapiens |
| 1266 | 3850 | G Protein-Coupled Receptor 10 (GPR10) | O75194 | 1091 | DSFREELRKLLVAWPRKIA | Homo sapiens |

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| 1267 | 3851 | Receptor 10 (GPR10) G Protein-Coupled Receptor GPR12 | AAA91630.1 | 78 | GCIPLSLAQRARSPD | Homo sapiens |
| 1268 | 3851 | G Protein-Coupled Receptor GPR12 | AAA91630.1 | 79 | ENISAAVSSRVPAVEPE | Homo sapiens |
| 1269 | 3851 | G Protein-Coupled Receptor GPR12 | AAA91630.1 | 307 | STCSVRPLTKNNA | Homo sapiens |
| 1270 | 3851 | G Protein-Coupled Receptor GPR12 | AAA91630.1 | 308 | QSEATKLVITGLVAS | Homo sapiens |
| 1271 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | AAA91783.1 | 84 | KQKENECLGDYPEVLQE | Homo sapiens |
| 1272 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | AAA91783.1 | 85 | SMNNRTVQHGVTISL | Homo sapiens |
| 1273 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | AAA91783.1 | 86 | ETLKLYDFFPSCDMRKDLR | Homo sapiens |
| 1274 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | AAA91783.1 | 87 | GRSVHVDFFSSESQSRHGS | Homo sapiens |
| 1275 | 3853 | G Protein-Coupled Receptor GPR15 | NP_005281.1 | 1511 | CLKNYDFGSSTETSDSHLTK | Homo sapiens |
| 1276 | 3853 | G Protein-Coupled Receptor GPR15 | NP_005281.1 | 1512 | KALSTFIHAEDFARRRKRS | Homo sapiens |
| 1277 | 3853 | G Protein-Coupled Receptor GPR15 | NP_005281.1 | 1612 | ATSPNSDIETHSHVP | Homo sapiens |
| 1278 | 3853 | G Protein-Coupled Receptor GPR15 | NP_005281.1 | 1613 | LMGALHFKPGSRRUD | Homo sapiens |
| 1279 | 3853 | G Protein-Coupled Receptor GPR15 | NP_005281.1 | 1615 | GLPTLLSRELTLDKPYC | Homo sapiens |
| 1280 | 3854 | G Protein-Coupled Receptor GPR18 | AAB65819.1 | 93 | DRYMAIVQPKYAKELKNTC | Homo sapiens |
| 1281 | 3854 | G Protein-Coupled Receptor GPR18 | AAB65819.1 | 94 | KDPDKDSTPATCLKISD | Homo sapiens |
| 1282 | 3854 | G Protein-Coupled Receptor GPR18 | AAB65819.1 | 95 | GRTSKLKPVKVKEKSIR | Homo sapiens |
| 1283 | 3854 | G Protein-Coupled Receptor GPR18 | AAB65819.1 | 96 | RNYLPSLRKRSFSGSLR | Homo sapiens |
| 1284 | 3855 | G Protein-Coupled Receptor GPR19 | AAB00316.1 | 97 | KVSREKAKKMIAASWIFD | Homo sapiens |
| 1285 | 3855 | G Protein-Coupled Receptor GPR19 | AAB00316.1 | 98 | DGRTVRRITMNIIVPRTKVK | Homo sapiens |

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| 1286 | 3855 | G Protein-Coupled Receptor GPR19 | AAB00316.1 | 99 | RRGMKETFCMSSMKC | Homo sapiens |
| 1287 | 3855 | G Protein-Coupled Receptor GPR19 | AAB00316.1 | 100 | KTITKDSINYDSFDREAKEKK | Homo sapiens |
| 1288 | 3856 | G Protein-Coupled Receptor GPR2/CCRI10 | P46092 | 1152 | ALLFSQDGGQREGQRRRC | Homo sapiens |
| 1289 | 3856 | G Protein-Coupled Receptor GPR2/CCRI10 | P46092 | 1153 | SGDEEDAYSAEPLPELC | Homo sapiens |
| 1290 | 3856 | G Protein-Coupled Receptor GPR2/CCRI10 | P46092 | 1154 | ALLDITADLLAARERSC | Homo sapiens |
| 1291 | 3856 | G Protein-Coupled Receptor GPR2/CCRI10 | P46092 | 1155 | RRLRGGSSPSGPQPRRG | Homo sapiens |
| 1292 | 3857 | G Protein-Coupled Receptor GPR20 | AAC51302.1 | 101 | KSGRHHILSAGPHALTQ | Homo sapiens |
| 1293 | 3857 | G Protein-Coupled Receptor GPR20 | AAC51302.1 | 102 | RTNASGLEVPLFLHIFARLDE | Homo sapiens |
| 1294 | 3857 | G Protein-Coupled Receptor GPR20 | AAC51302.1 | 103 | SRPGLLHQGRQRRVRAMQ | Homo sapiens |
| 1295 | 3857 | G Protein-Coupled Receptor GPR20 | AAC51302.1 | 104 | GQHGEREPSSGDVVSMHRSS | Homo sapiens |
| 1296 | 3858 | G Protein-Coupled Receptor GPR21 | AAC51303.1 | 105 | SERQARFSSQSGGETGEVQAC | Homo sapiens |
| 1297 | 3858 | G Protein-Coupled Receptor GPR21 | AAC51303.1 | 106 | DPYTVRSKGPLNGC | Homo sapiens |
| 1298 | 3858 | G Protein-Coupled Receptor GPR21 | AAC51303.1 | 107 | NSTLDGNGSSHPCLL | Homo sapiens |
| 1299 | 3858 | G Protein-Coupled Receptor GPR21 | AAC51303.1 | 108 | CASQITANDPYTVRSK | Homo sapiens |
| 1300 | 3859 | G Protein-Coupled Receptor GPR22 | AAC51304.1 | 109 | EINMQSESNIIVRDDIDD | Homo sapiens |
| 1301 | 3859 | G Protein-Coupled Receptor GPR22 | AAC51304.1 | 111 | RRAVVKRHRERRERQKRVFRM | Homo sapiens |
| 1302 | 3859 | G Protein-Coupled Receptor GPR22 | AAC51304.1 | 112 | TRQKFQKVLKSKMKKR | Homo sapiens |
| 1303 | 3859 | G Protein-Coupled Receptor GPR22 | AAC51304.1 | 113 | DPKRNKKITFEDSEIREKR | Homo sapiens |
| 1304 | 3860 | G Protein-Coupled Receptor SLC/MCH1 | AAH01736.1 | 1532 | CAPGGGRRRWRLPQPAWVEG | Homo sapiens |
| 1305 | 3860 | G Protein-Coupled | AAH01736.1 | 1533 | EASLPTGPNASNTSDGPDN | Homo sapiens |

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| 1306 | 3860 | Receptor SLC/MCH1 G Protein-Coupled | AAH01736.1 | 1539 | KGVGRAVGLGGSGCQATE | Homo sapiens |
| 1307 | 3860 | Receptor SLC/MCH1 G Protein-Coupled | AAH01736.1 | 1565 | RMTSSVAPASQSRIRLTKR | Homo sapiens |
| 1308 | 3860 | Receptor SLC/MCH1 G Protein-Coupled | AAH01736.1 | 1567 | RAVSNAGTAEERTESKG | Homo sapiens |
| 1309 | 3861 | Receptor SLC/MCH1 G Protein-Coupled | O00155 | 376 | RGLQLPGGGQDSQCCEEP | Homo sapiens |
| 1310 | 3861 | Receptor GPR25 G Protein-Coupled | O00155 | 377 | CRISRLRRPPHVGRARRNS | Homo sapiens |
| 1311 | 3861 | Receptor GPR25 G Protein-Coupled | O00155 | 378 | RTGRLARRISSASSLRDD | Homo sapiens |
| 1312 | 3861 | Receptor GPR25 G Protein-Coupled | O00155 | 483 | DYSGLDGLEELELCPAGD | Homo sapiens |
| 1313 | 3862 | Receptor GPR25 G Protein-Coupled | AAB60402.1 | 118 | TVYCLLGDAHSPLYT | Homo sapiens |
| 1314 | 3862 | Receptor GPR3 G Protein-Coupled | AAB60402.1 | 119 | EGPTGPAAPLPSPKAWD | Homo sapiens |
| 1315 | 3862 | Receptor GPR3 G Protein-Coupled | AAB60402.1 | 120 | HFAAVFCIGSAEMSL | Homo sapiens |
| 1316 | 3862 | Receptor GPR3 G Protein-Coupled | AAB60402.1 | 121 | GLTCGVVYPLSKNH | Homo sapiens |
| 1317 | 3863 | Receptor GPR3 G Protein-Coupled | O00270 | 1157 | REPEKQPKLQRAQALVTLV | Homo sapiens |
| 1318 | 3863 | Receptor GPR31 G Protein-Coupled | O00270 | 1158 | CHSFYSRADGFSIWWQEA | Homo sapiens |
| 1319 | 3863 | Receptor GPR31 G Protein-Coupled | O00270 | 1159 | QNLGSCRALCAVAHTSDVTG | Homo sapiens |
| 1320 | 3863 | Receptor GPR31 G Protein-Coupled | O00270 | 1160 | SPTRSSVYRRVFHTLRGKGQ | Homo sapiens |
| 1321 | 3864 | Receptor GPR31 G Protein-Coupled | AAA98457.1 | 143 | DELFRDRYNHTFCFEKFPME | Homo sapiens |
| 1322 | 3864 | Receptor GPR4 G Protein-Coupled | AAA98457.1 | 144 | LRAVRGSVSTERQEKAKIKR | Homo sapiens |
| 1323 | 3864 | Receptor GPR4 G Protein-Coupled | AAA98457.1 | 145 | RSDVAKALHNLLRFLASDK | Homo sapiens |
| 1324 | 3864 | Receptor GPR4 G Protein-Coupled | AAA98457.1 | 146 | NASLTLETPLTSKRNSTAK | Homo sapiens |

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| 1325 | 3866 | G Protein-Coupled Receptor GPR6 | AAA91631.1 | 166 | FQYLVPSETVSLTVG | Homo sapiens |
| 1326 | 3866 | G Protein-Coupled Receptor GPR6 | AAA91631.1 | 167 | CLAERAACSVVRPLARSH | Homo sapiens |
| 1327 | 3866 | G Protein-Coupled Receptor GPR6 | AAA91631.1 | 168 | HLVVRICQVWRHAH | Homo sapiens |
| 1328 | 3866 | G Protein-Coupled Receptor GPR6 | AAA91631.1 | 169 | EIGRALWLLCGCFQSK | Homo sapiens |
| 1329 | 3867 | G Protein-Coupled Receptor GPR7 | AAC50197.1 | 171 | ATAESRRVAGRTYSAAR | Homo sapiens |
| 1330 | 3867 | G Protein-Coupled Receptor GPR7 | AAC50197.1 | 172 | RLDDEQGRRQCVLVFPQPE | Homo sapiens |
| 1331 | 3867 | G Protein-Coupled Receptor GPR7 | AAC50197.1 | 173 | RLHAMRLDASHAKALERAKKR | Homo sapiens |
| 1332 | 3867 | G Protein-Coupled Receptor GPR7 | AAC50197.1 | 174 | DASFRRLRLQLITC | Homo sapiens |
| 1333 | 3868 | G Protein-Coupled Receptor GPR8 | AAC50198.1 | 175 | NVSQDNGTGHNAFSEP | Homo sapiens |
| 1334 | 3868 | G Protein-Coupled Receptor GPR8 | AAC50198.1 | 176 | RSRHMPWRTYRGAKVAS | Homo sapiens |
| 1335 | 3868 | G Protein-Coupled Receptor GPR8 | AAC50198.1 | 177 | VLRLSGAKALGKARRK | Homo sapiens |
| 1336 | 3868 | G Protein-Coupled Receptor GPR8 | AAC50198.1 | 178 | LDNFRKNFRSLRC | Homo sapiens |
| 1337 | 3869 | G Protein-Coupled Receptor HM74 | BAA01721.1 | 179 | QDHFLEIDKKNCCVFRDD | Homo sapiens |
| 1338 | 3869 | G Protein-Coupled Receptor HM74 | BAA01721.1 | 180 | ARIWLSLRQGMMDRHAQIKR | Homo sapiens |
| 1339 | 3869 | G Protein-Coupled Receptor HM74 | BAA01721.1 | 181 | CLQRKMTGEPDNNRSTVE | Homo sapiens |
| 1340 | 3869 | G Protein-Coupled Receptor HM74 | BAA01721.1 | 182 | DPNKTGGAPEALMANSGE | Homo sapiens |
| 1341 | 3869 | G Protein-Coupled Receptor HM74 | BAA01721.1 | 183 | SNNHKKGHCHQEPASLEKQ | Homo sapiens |
| 1342 | 3869 | G Protein-Coupled Receptor HM74 | BAA01721.1 | 1453 | RQRQMDRHAQIKRAITFIMV | Homo sapiens |
| 1343 | 3869 | G Protein-Coupled Receptor HM74 | BAA01721.1 | 1454 | SPSYLGPTSNNHKKG | Homo sapiens |
| 1344 | 3870 | G Protein-Coupled | Q15743 | 1192 | AVRPSHGTQKSRKDQI | Homo sapiens |

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| 1345 | 3870 | Receptor OGR1 | Q15743 | 1193 | LMHEEVIEDENQHRVC | Homo sapiens |
| 1346 | 3870 | G Protein-Coupled Receptor OGR1 | Q15743 | 1194 | CFVSETHRDLARLG | Homo sapiens |
| 1347 | 3870 | G Protein-Coupled Receptor OGR1 | Q15743 | 1195 | CSRTGRAREAVPLGAPÉASG | Homo sapiens |
| 1348 | 3921 | Prostaglandin Receptor | P43119 | 1188 | CRMVRQQRKHQGSGLPRPRT | Homo sapiens |
| 1349 | 3921 | Prostaglandin Receptor | P43119 | 1189 | CFTQAVAPDSSEMMD | Homo sapiens |
| 1350 | 3921 | Prostaglandin Receptor | P43119 | 1190 | ASGRRDPRAPAPVGKEGSC | Homo sapiens |
| 1351 | 3921 | Prostaglandin Receptor | P43119 | 1191 | SAWGEGQVEPLPTQQ | Homo sapiens |
| 1352 | 3923 | Prostaglandin D2 Receptor | Q13258 | 458 | KSPFYRCQNTTSVEKNSAV | Homo sapiens |
| 1353 | 3923 | Prostaglandin D2 Receptor | Q13258 | 459 | RNLYAMHRRILQRHPRSC | Homo sapiens |
| 1354 | 3923 | Prostaglandin D2 Receptor | Q13258 | 503 | CAEPRADGREASQPLEEL | Homo sapiens |
| 1355 | 3923 | Prostaglandin D2 Receptor | Q13258 | 504 | KDVKEKNITSEEAEDLRALR | Homo sapiens |
| 1356 | 3924 | Prostaglandin E Receptor | P34995 | 962 | AQAAGRLRRRSATTF | Homo sapiens |
| 1357 | 3924 | Prostaglandin E Receptor | P34995 | 963 | CVGVTRPLLHAARVSVARAR | Homo sapiens |
| 1358 | 3924 | Prostaglandin E Receptor | P34995 | 964 | CNTLSGLALHRAWRRR | Homo sapiens |
| 1359 | 3924 | Prostaglandin E Receptor | P34995 | 965 | ASGPDSSRRRWGAHGPR | Homo sapiens |
| 1360 | 3924 | Prostaglandin E Receptor | P34995 | 966 | SGSARRARAHDEVEMVGQ | Homo sapiens |
| 1361 | 3925 | Prostaglandin E Receptor | AAD44177.1 | 967 | IALALLARRWRGVDVGC | Homo sapiens |
| 1362 | 3925 | Prostaglandin E Receptor | AAD44177.1 | 968 | CETRQWLPPGESPAISSV | Homo sapiens |
| 1363 | 3925 | Prostaglandin E Receptor | AAD44177.1 | 969 | GPSLGSGRGGPGARRRGE | Homo sapiens |
| 1364 | 3925 | Prostaglandin E Receptor | AAD44177.1 | 971 | NETSSRKEKWDLQALR | Homo sapiens |
| 1365 | 3926 | Prostaglandin E2 Receptor | CAB52459.1 | 972 | ERSAEARGNLTRPPSGEDC | Homo sapiens |
| 1366 | 3926 | Prostaglandin E2 Receptor | CAB52459.1 | 973 | SRSVRRRESKRKKSFLC | Homo sapiens |
| 1367 | 3926 | Prostaglandin E2 Receptor | CAB52459.1 | 974 | CRAKATASQSSAQWGR | Homo sapiens |

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| 1368 | 3926 | EP3 | Prostaglandin E2 Receptor | CAB52459.1 | 975 | KFCQVANAVSSCSNDGQ | Homo sapiens |
| 1369 | 3927 | EP3 | Prostaglandin E Receptor | P35408 | 382 | RLSDFRRRRFRRIAGAE | Homo sapiens |
| 1370 | 3927 | EP4 | Prostaglandin E Receptor | P35408 | 383 | EREVSKNPDLQAIRIAS | Homo sapiens |
| 1371 | 3927 | EP4 | Prostaglandin E Receptor | P35408 | 384 | DSQRTSSAMSGHSRFSIRE | Homo sapiens |
| 1372 | 3927 | EP4 | Prostaglandin E Receptor | P35408 | 385 | RTLRISETSDSSQGQDSE | Homo sapiens |
| 1373 | 3928 | EP4 | Prostaglandin F2-alpha Receptor | P43088 | 1046 | ILMKAYQRFQKSKAS | Homo sapiens |
| 1374 | 3928 | EP4 | Prostaglandin F2-alpha Receptor | P43088 | 1047 | ASDKEWIRFDQSNVLC | Homo sapiens |
| 1375 | 3928 | EP4 | Prostaglandin F2-alpha Receptor | P43088 | 1048 | TKPIFHSTKTSKHVK | Homo sapiens |
| 1376 | 3928 | EP4 | Prostaglandin F2-alpha Receptor | P43088 | 1049 | CFYNTEDIKDWEDRFY | Homo sapiens |
| 1377 | 3928 | EP4 | Prostaglandin F2-alpha Receptor | P43088 | 1050 | RVKFKSQQHRQGRSHLE | Homo sapiens |
| 1378 | 4051 | EP4 | Proteinase-Activated Receptor 2 | AAB47871.1 | 252 | QGTRSSKGRSLUGKVDGTS | Homo sapiens |
| 1379 | 4051 | EP4 | Proteinase-Activated Receptor 2 | AAB47871.1 | 253 | QRYWVIVNPMGHSRKAN | Homo sapiens |
| 1380 | 4051 | EP4 | Proteinase-Activated Receptor 2 | AAB47871.1 | 255 | SHDFRDHAKNALLCRSVR | Homo sapiens |
| 1381 | 4051 | EP4 | Proteinase-Activated Receptor 2 | AAB47871.1 | 256 | VSLTSKKHSRKSSSYS | Homo sapiens |
| 1382 | 4052 | EP4 | Proteinase-Activated Receptor 3 | AAC51218.1 | 257 | ENDTNINLAKPTLPKTFR | Homo sapiens |
| 1383 | 4052 | EP4 | Proteinase-Activated Receptor 3 | AAC51218.1 | 258 | CPEESASHLHVKNATMG | Homo sapiens |
| 1384 | 4052 | EP4 | Proteinase-Activated Receptor 3 | AAC51218.1 | 260 | QPDITTCCHDVHNTCESSSP | Homo sapiens |
| 1385 | 4052 | EP4 | Proteinase-Activated Receptor 3 | AAC51218.1 | 261 | MSKTRNHSTAVLTK | Homo sapiens |
| 1386 | 4090 | EP4 | G Protein-Coupled Receptor GPR17 | CAB08108.1 | 88 | RDHKSGETPANVFLMH | Homo sapiens |

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| 1387 | 4090 | G Protein-Coupled Receptor GPR17 | CAB08108.1 | 90 | RSLRQGLRVEKRLTKAVR | Homo sapiens |
| 1388 | 4090 | G Protein-Coupled Receptor GPR17 | CAB08108.1 | 91 | RSHGASCATQRILALANR | Homo sapiens |
| 1389 | 4090 | G Protein-Coupled Receptor GPR17 | CAB08108.1 | 92 | FEGKTNESLSAKSE | Homo sapiens |
| 1390 | 4254 | Rhodopsin | P08100 | 1051 | RNCMLTICCGKNPLGD | Homo sapiens |
| 1391 | 4254 | Rhodopsin | P08100 | 1052 | CGIDYYTLKPEVNNESFVI | Homo sapiens |
| 1392 | 4254 | Rhodopsin | P08100 | 1053 | CWVPYASVAFYIFTHQGSN | Homo sapiens |
| 1393 | 4254 | Rhodopsin | P08100 | 1055 | VLGGFTSLYLSHGY | Homo sapiens |
| 1394 | 4284 | Retinal G Protein-Coupled Receptor RPE | P47804 | 1042 | ATSSLLRRWPYGSDDC | Homo sapiens |
| 1395 | 4284 | Retinal G Protein-Coupled Receptor RPE | P47804 | 1043 | CTLDYSKGDNRNFTSL | Homo sapiens |
| 1396 | 4284 | Retinal G Protein-Coupled Receptor RPE | P47804 | 1044 | MEQKLGKSGHLQVNTT | Homo sapiens |
| 1397 | 4284 | Retinal G Protein-Coupled Receptor RPE | P47804 | 1045 | MVCRGIWQCCLSPQKRE | Homo sapiens |
| 1398 | 4321 | Secretin Receptor | P47872 | 950 | CLQELSRQETGDLGTEQ | Homo sapiens |
| 1399 | 4321 | Secretin Receptor | P47872 | 951 | CPRELMLTSRNGSLFRN | Homo sapiens |
| 1400 | 4321 | Secretin Receptor | P47872 | 952 | CGVNVNDSSNEKRHSY | Homo sapiens |
| 1401 | 4321 | Secretin Receptor | P47872 | 954 | KDAVLFSSDDVYCDAAH | Homo sapiens |
| 1402 | 4321 | Secretin Receptor | P47872 | 956 | MIRKLRTQETRGNEVSH | Homo sapiens |
| 1403 | 4480 | Somatostatin Receptor Type 1 | P30872 | 994 | EEPGRNASQNGTLSEG | Homo sapiens |
| 1404 | 4480 | Somatostatin Receptor Type 1 | P30872 | 996 | CLSWMDNAAEEPVDY | Homo sapiens |
| 1405 | 4480 | Somatostatin Receptor Type 1 | P30872 | 997 | EDFQPENLES GG VFRNGTC | Homo sapiens |
| 1406 | 4480 | Somatostatin Receptor Type 1 | P30872 | 2616 | LSVDAVNIMFTSYIC | Homo sapiens |
| 1407 | 4480 | Somatostatin Receptor Type 1 | P30872 | 2618 | RAYSVEDFQPENLES | Homo sapiens |
| 1408 | 4481 | Somatostatin Receptor Type 2 | P30874 | 998 | RSNQWGRSSCTINWPGE | Homo sapiens |
| 1409 | 4481 | Somatostatin Receptor Type 2 | P30874 | 999 | KVKSSGIRVGSSKRKKE | Homo sapiens |
| 1410 | 4481 | Somatostatin Receptor Type | P30874 | 1000 | CLVKVSGTDDGERSDS | Homo sapiens |

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| 1411 | 4481 | 2 | Somatostatin Receptor Type P30874 | 1001 | KQDKSRJNETTETQRT | Homo sapiens |
| 1412 | 4481 | 2 | Somatostatin Receptor Type P30874 | 2276 | DMADEPLNGSHTWLSIP | Homo sapiens |
| 1413 | 4482 | 2 | Somatostatin Receptor Type P32745 | 1002 | KVRSAGRRVWAPSCQR | Homo saplens |
| 1414 | 4482 | 3 | Somatostatin Receptor Type P32745 | 2622 | REGGKGKEMNGRVSQI | Homo sapiens |
| 1415 | 4482 | 3 | Somatostatin Receptor Type P32745 | 2624 | TTSEPENASSAWPPD | Homo sapiens |
| 1416 | 4482 | 3 | Somatostatin Receptor Type P32745 | 2626 | QPGTSGQERPPSRVA | Homo sapiens |
| 1417 | 4483 | 3 | Somatostatin Receptor Type P31391 | 1007 | IFADTRPARGGQAVAC | Homo saplens |
| 1418 | 4483 | 4 | Somatostatin Receptor Type P31391 | 1008 | CLLEGAGGAEEEPLDY | Homo saplens |
| 1419 | 4483 | 4 | Somatostatin Receptor Type P31391 | 2627 | KMRAVALRAGWQQRR | Homo sapiens |
| 1420 | 4483 | 4 | Somatostatin Receptor Type P31391 | 2631 | CRAVLSVDGLNMFSTV | Homo sapiens |
| 1421 | 4483 | 4 | Somatostatin Receptor Type P31391 | 2633 | CLVGLVGNALVIFVIL | Homo sapiens |
| 1422 | 4484 | 4 | Somatostatin Receptor Type NP_001044.1 | 2637 | SLPLLVFADVQEGGTC | Homo sapiens |
| 1423 | 4484 | 5 | Somatostatin Receptor Type NP_001044.1 | 2638 | CLRKGGGAKDADATEP | Homo sapiens |
| 1424 | 4484 | 5 | Somatostatin Receptor Type NP_001044.1 | 2639 | RIRQQQEATPPAHRAAA | Homo sapiens |
| 1425 | 4484 | 5 | Somatostatin Receptor Type NP_001044.1 | 2643 | RVAKLASAAAWVLSLC | Homo sapiens |
| 1426 | 4552 | 5 | Tachykinin Receptor 1 AAA36641.1 | 1339 | CMIEWPEHPNKIYKV | Homo sapiens |
| 1427 | 4552 | Tachykinin Receptor 1 AAA36641.1 | 1340 | CPFISAGDYEGLMKSTRYL | Homo sapiens | |
| 1428 | 4552 | Tachykinin Receptor 1 AAA36641.1 | 1341 | KVSRLETITSTVGAHEE | Homo sapiens | |
| 1429 | 4552 | Tachykinin Receptor 1 AAA36641.1 | 1342 | EPEDGPKATPSSDLTINC | Homo sapiens | |
| 1430 | 4687 | Thrombin Receptor P25116 | 1202 | EDEEKNESGLTEYRLV | Homo sapiens | |
| 1431 | 4687 | Thrombin Receptor P25116 | 2582 | AVANRSKKSRAFLSAAVFC | Homo sapiens | |
| 1432 | 4687 | Thrombin Receptor P25116 | 2583 | SINKSPLQKQLPAFISE | Homo sapiens | |

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| 1433 | 4687 | Thrombin Receptor | P25116 | 2621 | DPRSFLRNPNDKYEPFWE | Homo sapiens |
| 1434 | 4734 | Thyrotropin Releasing Hormone Receptor | P34981 | 1196 | PSDPKENSKTWKNDST | Homo sapiens |
| 1435 | 4734 | Thyrotropin Releasing Hormone Receptor | P34981 | 1197 | CFNSTVSSRKQVTKMLA | Homo sapiens |
| 1436 | 4734 | Thyrotropin Releasing Hormone Receptor | P34981 | 1198 | RAAFRLKLCNCKQKPT | Homo sapiens |
| 1437 | 4734 | Thyrotropin Releasing Hormone Receptor | P34981 | 1199 | KPANYSVALNYSVIKE | Homo sapiens |
| 1438 | 4734 | Thyrotropin Releasing Hormone Receptor | P34981 | 1200 | KESDHFSTELDDITVTD | Homo sapiens |
| 1439 | 4944 | Angiotensin II Type 1 Receptor | NP_000676.1 | 1771 | EIQKNKPRNDDIFKII | Homo sapiens |
| 1440 | 4944 | Angiotensin II Type 1 Receptor | NP_000676.1 | 1772 | SYRPSDNVSSSTKKPAPC | Homo sapiens |
| 1441 | 4944 | Angiotensin II Type 1 Receptor | NP_000676.1 | 1773 | LNSSTEDGIKRIQDDC | Homo sapiens |
| 1442 | 4946 | Angiotensin II Type 2 Receptor | P50052 | 1321 | CSQKPSDKHILDAIPIL | Homo sapiens |
| 1443 | 4946 | Angiotensin II Type 2 Receptor | P50052 | 1322 | DRYQSVIYPFLSQRRN | Homo sapiens |
| 1444 | 4946 | Angiotensin II Type 2 Receptor | P50052 | 1323 | RKHLTKNSYGVKNRITRD | Homo sapiens |
| 1445 | 4946 | Angiotensin II Type 2 Receptor | P50052 | 1324 | RVPTWLQGKRESMSC | Homo sapiens |
| 1446 | 5072 | Pyrimidinergic Receptor P2Y4 | P51582 | 1142 | CHDITRPEEFDHYVHFSSA | Homo sapiens |
| 1447 | 5072 | Pyrimidinergic Receptor P2Y4 | P51582 | 1145 | YLLTGDKYRRQLRQLC | Homo sapiens |
| 1448 | 5072 | Pyrimidinergic Receptor P2Y4 | P51582 | 2696 | HPLRLRWGRPRLAG | Homo sapiens |
| 1449 | 5072 | Pyrimidinergic Receptor P2Y4 | P51582 | 2697 | HITRTIYILARLLEADC | Homo sapiens |
| 1450 | 5117 | Vasopressin V1A Receptor | AAA62271.1 | 262 | REAEALGEGNGPPRDVRNEE | Homo sapiens |
| 1451 | 5117 | Vasopressin V1A Receptor | AAA62271.1 | 263 | NVRGKTASRQSKGAEG | Homo sapiens |
| 1452 | 5117 | Vasopressin V1A Receptor | AAA62271.1 | 264 | GNMKEKFNKEDTDSMSRRQ | Homo sapiens |
| 1453 | 5117 | Vasopressin V1A Receptor | AAA62271.1 | 265 | RQTFYSNNRSPNTSGMWKD | Homo sapiens |
| 1454 | 5118 | Vasopressin V1B Receptor | AAA65687.1 | 266 | NATTPWLGRDEELAKVE | Homo sapiens |
| 1455 | 5118 | Vasopressin V1B Receptor | AAA65687.1 | 267 | TRGLPSRVSSINTISRAKIR | Homo sapiens |

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| 1456 | 5118 | Vasopressin V1B Receptor | AAA65687.1 | 268 | QPRMRRRLSDGSLSRH | Homo sapiens |
| 1457 | 5118 | Vasopressin V1B Receptor | AAA65687.1 | 269 | ESPRDLLEADGEGTAET | Homo sapiens |
| 1458 | 5119 | Vasopressin V2 Receptor | CAA77746.1 | 270 | SNSSQERPLDTRDPLARAE | Homo sapiens |
| 1459 | 5119 | Vasopressin V2 Receptor | CAA77746.1 | 271 | RHSGGAHWNRVPLVAVAFS | Homo sapiens |
| 1460 | 5119 | Vasopressin V2 Receptor | CAA77746.1 | 272 | CQVLIFREIHASLVPGPSE | Homo sapiens |
| 1461 | 5119 | Vasopressin V2 Receptor | CAA77746.1 | 273 | RGRTPPSLGPQDESC | Homo sapiens |
| 1462 | 5133 | Peropsin | O14718 | 1147 | KNEDGSVFSQTEHNIV | Homo sapiens |
| 1463 | 5133 | Peropsin | O14718 | 1148 | IKYKELRTPNTAIIN | Homo sapiens |
| 1464 | 5133 | Peropsin | O14718 | 1149 | RKNDRSFVSYMTMIA | Homo sapiens |
| 1465 | 5133 | Peropsin | O14718 | 1150 | CTESLNRDWSDQIDVTK | Homo sapiens |
| 1466 | 5133 | Peropsin | O14718 | 1151 | VANKFRRAMLAMFKC | Homo sapiens |
| 1467 | 5519 | Brain-Specific Angiogenesis Inhibitor 1 | O14514 | 987 | CGPAGRTSSRSQSLRSTDA | Homo sapiens |
| 1468 | 5519 | Brain-Specific Angiogenesis Inhibitor 1 | O14514 | 988 | EENRDKWEEAQLAGPN | Homo sapiens |
| 1469 | 5519 | Brain-Specific Angiogenesis Inhibitor 1 | O14514 | 989 | CRVVDROEEGNGDSGG | Homo sapiens |
| 1470 | 5519 | Brain-Specific Angiogenesis Inhibitor 1 | O14514 | 990 | KRDKAPKSSFVGDGDI | Homo sapiens |
| 1471 | 5519 | Brain-Specific Angiogenesis Inhibitor 1 | O14514 | 991 | RKLQHAAEKDKEVLGP | Homo sapiens |
| 1472 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | O60241 | 981 | CLRPSPEEAVAQAESEVGR | Homo sapiens |
| 1473 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | O60241 | 982 | GSSNDLFTTEMRYGEE | Homo sapiens |
| 1474 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | O60241 | 983 | MARDGISDKSKQIRAGSERC | Homo sapiens |
| 1475 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | O60241 | 984 | EDAPRAIRPEGTPRRAAK | Homo sapiens |
| 1476 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | O60241 | 985 | RSRTMPRTVPGSTMKMGSL | Homo sapiens |
| 1477 | 5520 | Brain-Specific Angiogenesis Inhibitor 2 | O60241 | 986 | KREKRWSVSSGGAERSV | Homo sapiens |
| 1478 | 5521 | Brain-Specific Angiogenesis Inhibitor 3 | O60242 | 976 | RRVFPTNFPGLQKKGE | Homo sapiens |
| 1479 | 5521 | Brain-Specific Angiogenesis Inhibitor 3 | O60242 | 977 | CNLTREAKRPPKEEFG | Homo sapiens |
| 1480 | 5521 | Brain-Specific Angiogenesis Inhibitor 3 | O60242 | 978 | KLKHRAGQMSEPHSGLTKC | Homo sapiens |

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| 1481 | 5521 | Inhibitor 3 | | | | 979 | CTDNLIRGADMDIVHPQER | Homo sapiens |
| 1482 | 5521 | Brain-Specific Angiogenesis Inhibitor 3 | O60242 | | | 980 | SRSETGSTISMSSLERR | Homo sapiens |
| 1483 | 6031 | SIV/HIV Receptor BONZO | O00574 | | | 1101 | NDSSQEEHQDFLQFSK | Homo sapiens |
| 1484 | 6031 | SIV/HIV Receptor BONZO | O00574 | | | 1102 | KATKAYNQQAQKMTWG | Homo sapiens |
| 1485 | 6031 | SIV/HIV Receptor BONZO | O00574 | | | 1103 | KTLLHAGGFQKHSRLK | Homo sapiens |
| 1486 | 6031 | SIV/HIV Receptor BONZO | O00574 | | | 1104 | SLKFRKNFWKLVDIGC | Homo sapiens |
| 1487 | 6031 | SIV/HIV Receptor BONZO | O00574 | | | 1105 | KSSDNSKTSASHNV | Homo sapiens |
| 1488 | 6204 | Lysophosphatidic Acid Receptor Edg4 | AAC27728.1 | | | 66 | ERHRSVMAVQLHSRLPRGR | Homo sapiens |
| 1489 | 6204 | Lysophosphatidic Acid Receptor Edg4 | AAC27728.1 | | | 67 | RRRVQRMAEHVSCHPRYRE | Homo sapiens |
| 1490 | 6204 | Lysophosphatidic Acid Receptor Edg4 | AAC27728.1 | | | 68 | NAAVYSCRDAMRRITRR | Homo sapiens |
| 1491 | 6204 | Lysophosphatidic Acid Receptor Edg4 | AAC27728.1 | | | 69 | RQSTRESVHYTSSAQGGAST | Homo sapiens |
| 1492 | 6213 | C-C Chemokine Receptor 5 | AAC50598.1 | | | 38 | YSQYQFWKNFQTLK | Homo sapiens |
| 1493 | 6213 | C-C Chemokine Receptor 5 | AAC50598.1 | | | 39 | QGEAPERASSVYTRSTGEQE | Homo sapiens |
| 1494 | 6213 | C-C Chemokine Receptor 5 | AAC50598.1 | | | 40 | RSQKEGLHYTCSSHFPYSQ | Homo sapiens |
| 1495 | 6213 | C-C Chemokine Receptor 5 | AAC50598.1 | | | 309 | MDYQVSSPIVDINYYTSEPC | Homo sapiens |
| 1496 | 6363 | Chemokine (C-C motif) Receptor-like 2 (CCRL2) | O00421 | | | 1092 | EDEYDVLIEGELESDEAEQC | Homo sapiens |
| 1497 | 6363 | Chemokine (C-C motif) Receptor-like 2 (CCRL2) | O00421 | | | 1093 | KGNFFSARRRVPCGIITSVL | Homo sapiens |
| 1498 | 6363 | Chemokine (C-C motif) Receptor-like 2 (CCRL2) | O00421 | | | 1094 | MIRKTLRFREQRYSLFKLVFA | Homo sapiens |
| 1499 | 6363 | Chemokine (C-C motif) Receptor-like 2 (CCRL2) | O00421 | | | 1096 | RSNITPLQPRGQSAQGTSTRE | Homo sapiens |
| 1500 | 6446 | Pael Receptor (GPR37) | AAC51281.1 | | | 127 | GPGNSARDVLRARAPREEQG | Homo sapiens |
| 1501 | 6446 | Pael Receptor (GPR37) | AAC51281.1 | | | 129 | DPGGPRRGNSINRRVRLKNP | Homo sapiens |
| 1502 | 6446 | Pael Receptor (GPR37) | AAC51281.1 | | | 130 | LRQLSKEDLGFSGRAPAERC | Homo sapiens |
| 1503 | 6446 | Pael Receptor (GPR37) | AAC51281.1 | | | 131 | PRGAVISGRSQEQSVKTVPG | Homo sapiens |
| 1504 | 6446 | Pael Receptor (GPR37) | AAC51281.1 | | | 1781 | CIQKSTVTSDDNDNDNEYTE | Homo sapiens |
| 1505 | 6446 | Pael Receptor (GPR37) | NP_005293.1 | | | 1806 | CIQKSTVTSDDNDNDNEYTE | Homo sapiens |
| 1506 | 6536 | Putative Neurotransmitter Receptor (PNR) | O14804 | | | 319 | TDVETRLSQWLEEMPC | Homo sapiens |

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| 1507 | 6536 | Putative Neurotransmitter Receptor (PNR) | O14804 | 320 | KSLAGAAKHERKAAKT | Homo sapiens |
| 1508 | 6536 | Putative Neurotransmitter Receptor (PNR) | O14804 | 321 | RKALKLTLGKVFSPQTR | Homo sapiens |
| 1509 | 6536 | Putative Neurotransmitter Receptor (PNR) | O14804 | 485 | HPAAFCYQVNGSCPR | Homo sapiens |
| 1510 | 6777 | G Protein-Coupled Receptor TM7SF1 | O60478 | 788 | KAKSKVPELLKYRLP | Homo sapiens |
| 1511 | 6777 | G Protein-Coupled Receptor TM7SF1 | O60478 | 790 | KTGNWERKVIVSVRVA | Homo sapiens |
| 1512 | 6777 | G Protein-Coupled Receptor TM7SF1 | O60478 | 791 | KSVHSFDYDWWNVSDQAD | Homo sapiens |
| 1513 | 6777 | G Protein-Coupled Receptor TM7SF1 | O60478 | 792 | RVRNPTKDLTNPQMVP | Homo sapiens |
| 1514 | 6777 | G Protein-Coupled Receptor TM7SF1 | O60478 | 793 | RYDSDDDLAWNIAPIQGLQ | Homo sapiens |
| 1515 | 6853 | Purinergic Receptor P2Y11 | O43190 | 865 | PTLSFHLKRPQQGAGNC | Homo sapiens |
| 1516 | 6853 | Purinergic Receptor P2Y11 | O43190 | 866 | GALGRAVLRSPGMTVAE | Homo sapiens |
| 1517 | 6853 | Purinergic Receptor P2Y11 | O43190 | 867 | MRVLNVDAARRWSTRC | Homo sapiens |
| 1518 | 6853 | Purinergic Receptor P2Y11 | O43190 | 868 | CPGYRDSWNPEDAKSTGQA | Homo sapiens |
| 1519 | 6853 | Purinergic Receptor P2Y11 | O43190 | 2299 | CPANFLAAADDKLSGFQGD | Homo sapiens |
| 1520 | 6853 | Purinergic Receptor P2Y11 | O43190 | 2300 | ASNGALVRFISRKQR | Homo sapiens |
| 1521 | 6921 | G Protein-Coupled Receptor GPR39 | AAC26082.1 | 137 | CNRSSTRHHEQPETSN | Homo sapiens |
| 1522 | 6921 | G Protein-Coupled Receptor GPR39 | AAC26082.1 | 139 | PNQIRRIMAAAKPKHD | Homo sapiens |
| 1523 | 6921 | G Protein-Coupled Receptor GPR39 | AAC26082.1 | 140 | EKRLRVHAHSTDSAR | Homo sapiens |
| 1524 | 6921 | G Protein-Coupled Receptor GPR39 | AAC26082.1 | 141 | VQRPLLFASTRQSSARRTEK | Homo sapiens |
| 1525 | 6921 | G Protein-Coupled Receptor GPR39 | AAC26082.1 | 142 | QSEAEPSKSKSLSLESP | Homo sapiens |
| 1526 | 7221 | Galanin Receptor GalR2 | AAC39634.1 | 197 | NLTVCHPAWSAPRRRAMD | Homo sapiens |
| 1527 | 7221 | Galanin Receptor GalR2 | AAC39634.1 | 198 | RAVDPAAGSGARRAKRK | Homo sapiens |
| 1528 | 7221 | Galanin Receptor GalR2 | AAC39634.1 | 199 | GRAPGRASGRVCAAAARG | Homo sapiens |
| 1529 | 7221 | Galanin Receptor GalR2 | AAC39634.1 | 200 | ERESDLLHMEAAAGALRPC | Homo sapiens |
| 1530 | 7246 | Orexin Receptor 1 | AAC39601.1 | 235 | DQLGDLEQGLSGEPQP | Homo sapiens |
| 1531 | 7246 | Orexin Receptor 1 | AAC39601.1 | 236 | EPSATPGAQMGVPPGSR | Homo sapiens |

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| 1532 | 7246 | Orexin Receptor 1 | AAC39601.1 | 237 | KRPDQLGLDLEQGLSGEPQ | Homo sapiens |
| 1533 | 7246 | Orexin Receptor 1 | AAC39601.1 | 239 | KAPSPRSSASHKSLSLQSRC | Homo sapiens |
| 1534 | 7247 | Orexin Receptor 2 | AAC39602.1 | 240 | SELNETQEFLNPTDYDDEE | Homo sapiens |
| 1535 | 7247 | Orexin Receptor 2 | AAC39602.1 | 241 | KWKPLQPVSQPRGPGQ | Homo sapiens |
| 1536 | 7247 | Orexin Receptor 2 | AAC39602.1 | 242 | TKSRMSAVAAEIKQIRA | Homo sapiens |
| 1537 | 7247 | Orexin Receptor 2 | AAC39602.1 | 243 | RQEDRLTRGRISTESRKS | Homo sapiens |
| 1538 | 8436 | Platelet-Activating Factor Receptor | P25105 | 1097 | AVTRPIKTAQANTIKR | Homo sapiens |
| 1539 | 8436 | Platelet-Activating Factor Receptor | P25105 | 1098 | DSTNTVPDSAGSGNVTRC | Homo sapiens |
| 1540 | 8436 | Platelet-Activating Factor Receptor | P25105 | 1099 | QQRNAEVKRRALWMVC | Homo sapiens |
| 1541 | 8436 | Platelet-Activating Factor Receptor | P25105 | 1100 | KKFRKHLTEKFYSMRSSRKC | Homo sapiens |
| 1542 | 8509 | G Protein-Coupled Receptor Ls8509 | Q14439 | 398 | DRYYSVLYPLERKISDAKSR | Homo sapiens |
| 1543 | 8509 | G Protein-Coupled Receptor Ls8509 | Q14439 | 400 | DEESEAKEYGSADFQAKE | Homo sapiens |
| 1544 | 8509 | G Protein-Coupled Receptor Ls8509 | Q14439 | 401 | ETRNSKKRLLPPLGNTPEE | Homo sapiens |
| 1545 | 8509 | G Protein-Coupled Receptor Ls8509 | Q14439 | 402 | ELQTKVPKVGRRVERKMSR | Homo sapiens |
| 1546 | 8896 | Neuropeptide Y Receptor Type 6 Pseudogene | Q99463 | 1078 | KKQRKAQNFTSILAN | Homo sapiens |
| 1547 | 8896 | Neuropeptide Y Receptor Type 6 Pseudogene | Q99463 | 1079 | FRNLSLPTDLYTHQVAC | Homo sapiens |
| 1548 | 8896 | Neuropeptide Y Receptor Type 6 Pseudogene | Q99463 | 1080 | CVENWPSKKDRLLFTT | Homo sapiens |
| 1549 | 8896 | Neuropeptide Y Receptor Type 6 Pseudogene | Q99463 | 1081 | CLRRRNAKVDKKKENEGR | Homo sapiens |
| 1550 | 9421 | Neuropeptide Y Receptor Type 1 | P25929 | 1064 | DEPFQNVTLDAVKDKYVC | Homo sapiens |
| 1551 | 9421 | Neuropeptide Y Receptor Type 1 | P25929 | 1065 | CYFKIYIRLKRNRNMMMDK | Homo sapiens |
| 1552 | 9421 | Neuropeptide Y Receptor Type 1 | P25929 | 1066 | CDFRSRDDDDYETIAMS | Homo sapiens |
| 1553 | 9421 | Neuropeptide Y Receptor Type 1 | P25929 | 1498 | ENDDCHLPLAMIFTALA | Homo sapiens |
| 1554 | 9421 | Neuropeptide Y Receptor Type 1 | P25929 | 2291 | SNFSEKNAQLLAFENDDC | Homo sapiens |

| | Type 1 | | | | | |
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| 1555 | 9834 | Corticotropin releasing factor Receptor 1 | NP_004373.1 | 1778 | CESLSLASNISDNGYRE | Homo sapiens |
| 1556 | 9834 | Corticotropin releasing factor Receptor 1 | NP_004373.1 | 1779 | CQEILNEEKSKVHVHVA | Homo sapiens |
| 1557 | 10457 | Frizzled-2 | NP_001457.1 | 1774 | NHSEDGAPALLTAPP | Homo sapiens |
| 1558 | 10457 | Frizzled-2 | NP_001457.1 | 1775 | GGAPPRVATLEHPHC | Homo sapiens |
| 1559 | 10457 | Frizzled-2 | NP_001457.1 | 1776 | CEPARPDGSMFFSQEE | Homo sapiens |
| 1560 | 11968 | Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20) | AAB97766.1 | 1082 | AAREAGAAVRRPLGPE | Homo sapiens |
| 1561 | 11968 | Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20) | AAB97766.1 | 1083 | LYRRPPREKIGRRRA | Homo saplens |
| 1562 | 11968 | Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20) | AAB97766.1 | 1085 | PRELAAGQSFHGCLYR | Homo sapiens |
| 1563 | 11968 | Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20) | AAB97766.1 | 1086 | CKTVRLSDVRVRPVNTYAR | Homo sapiens |
| 1564 | 14198 | Interleukin-8 Receptor B | P25025 | 802 | EDFWKGEDLSNYSYS | Homo sapiens |
| 1565 | 14198 | Interleukin-8 Receptor B | P25025 | 803 | PPFLDAAPECEPESLE | Homo sapiens |
| 1566 | 14198 | Interleukin-8 Receptor B | P25025 | 804 | RRTVSSNVSPACYE | Homo sapiens |
| 1567 | 14198 | Interleukin-8 Receptor B | P25025 | 805 | SKDSLPKDSRPSFVGS | Homo sapiens |
| 1568 | 14641 | Calcitonin Receptor | P30988 | 766 | PKPFLVVGGRKKMMDAQKVC | Homo sapiens |
| 1569 | 14641 | Calcitonin Receptor | P30988 | 769 | VEVWPNGELVRRDPVSC | Homo sapiens |
| 1570 | 14641 | Calcitonin Receptor | P30988 | 771 | KIQWNQIRWGRRPSNRS | Homo sapiens |
| 1571 | 14641 | Calcitonin Receptor | P30988 | 772 | CHQEPRNEPANNQGEESAE | Homo sapiens |
| 1572 | 16041 | C-C Chemokine Receptor 6 | P51684 | 355 | TKSFRLRSLPRSKIIC | Homo sapiens |
| 1573 | 16041 | C-C Chemokine Receptor 6 | P51684 | 356 | STFVFNQKYNTQGSDVCE | Homo sapiens |
| 1574 | 16041 | C-C Chemokine Receptor 6 | P51684 | 357 | TAANLKGKMNRSQQSE | Homo sapiens |
| 1575 | 16041 | C-C Chemokine Receptor 6 | P51684 | 358 | RYSENISRQJSETADNDNAS | Homo sapiens |
| 1576 | 16599 | Smoothed | NP_005622.1 | 2595 | CPLAPPELHPAPAP | Homo sapiens |
| 1577 | 16599 | Smoothed | NP_005622.1 | 2666 | CAIVERERGWPDFLR | Homo sapiens |
| 1578 | 16599 | Smoothed | NP_005622.1 | 2667 | CTNEVGNIKFNSGGQ | Homo sapiens |
| 1579 | 16599 | Smoothed | NP_005622.1 | 2668 | CEVPLVRTDNPKSWYE | Homo sapiens |
| 1580 | 16599 | Smoothed | NP_005622.1 | 2669 | CRADGTMRLGEPTSNE | Homo sapiens |

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| 1581 | 16599 | Smoothed | NP_005622.1 | 2670 | EAEISPELQKRLGRKK | Homo sapiens |
| 1582 | 16599 | Smoothed | NP_005622.1 | 2671 | ANVTIGLPTKQPIPD | Homo sapiens |
| 1583 | 17250 | G Protein-Coupled Receptor GPR45 | O43898 | 1227 | SNASDSGSTQLPAPLR | Homo sapiens |
| 1584 | 17250 | G Protein-Coupled Receptor GPR45 | O43898 | 1228 | CVLGYTELPADRAWV | Homo sapiens |
| 1585 | 17250 | G Protein-Coupled Receptor GPR45 | O43898 | 1249 | LNTVRKNAVVRVHNQSD | Homo sapiens |
| 1586 | 17250 | G Protein-Coupled Receptor GPR45 | O43898 | 1272 | KVPERIRRIQIPSTVYC | Homo sapiens |
| 1587 | 17250 | G Protein-Coupled Receptor GPR45 | O43898 | 1273 | DSLDRQLTRAGLRRL | Homo sapiens |
| 1588 | 17345 | G Protein-Coupled Receptor D6 | LR13 | 363 | EDADAENSSFYDYDLE | Homo sapiens |
| 1589 | 17345 | G Protein-Coupled Receptor D6 | LR13 | 364 | DKYLEIVHAQPYHRLTR | Homo sapiens |
| 1590 | 17345 | G Protein-Coupled Receptor D6 | LR13 | 365 | CVLVRLRPAGQGRALK | Homo sapiens |
| 1591 | 17345 | G Protein-Coupled Receptor D6 | LR13 | 366 | DLGERQSENYPNKEDVGNK | Homo sapiens |
| 1592 | 17535 | Gaba(b) Receptor 1 | O95375 | 188 | EKLTKRLKRHPEETGGFQEA | Homo sapiens |
| 1593 | 17535 | Gaba(b) Receptor 1 | O95375 | 189 | KKEEKKEWRKTLEPWK | Homo sapiens |
| 1594 | 17535 | Gaba(b) Receptor 1 | O95375 | 190 | DPLHRTIETFAKEPKEDID | Homo sapiens |
| 1595 | 17535 | Gaba(b) Receptor 1 | O95375 | 191 | YEIEYVCRGEREVVGPVKRK | Homo sapiens |
| 1596 | 17666 | Glucagon-Like Peptide 1 Receptor | AAA17021.1 | 1205 | SLWETVQIKWREYRRQC | Homo sapiens |
| 1597 | 17666 | Glucagon-Like Peptide 1 Receptor | AAA17021.1 | 1206 | LQKDNSSLPWRLSEC | Homo sapiens |
| 1598 | 17666 | Glucagon-Like Peptide 1 Receptor | AAA17021.1 | 1208 | CIVVSKLKANLMCKTD | Homo sapiens |
| 1599 | 17666 | Glucagon-Like Peptide 1 Receptor | AAA17021.1 | 1209 | RWRLEHLHIQRDSSMKPLKC | Homo sapiens |
| 1600 | 18471 | G Protein-Coupled Receptor LOC51210 | NP_057456.1 | 1520 | CQVDETEEPDVHLPQP | Homo sapiens |
| 1601 | 18471 | G Protein-Coupled Receptor LOC51210 | NP_057456.1 | 1521 | REGLEAAGAAAGASAAASYSS | Homo sapiens |
| 1602 | 18471 | G Protein-Coupled Receptor LOC51210 | NP_057456.1 | 1522 | KLPSARAKIRITSSPI | Homo sapiens |
| 1603 | 18471 | G Protein-Coupled Receptor LOC51210 | NP_057456.1 | 1523 | ESKSSIKRVLAITTVLS | Homo sapiens |

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| 1604 | 18471 | Receptor LOC51210 | NP_057456.1 | 1524 | QGTLELYPDAHLAED | Homo sapiens |
| 1605 | 18471 | G Protein-Coupled Receptor LOC51210 | NP_057456.1 | 1525 | PKTPLKERISLPSRRS | Homo sapiens |
| 1606 | 19072 | G Protein-Coupled Receptor LOC51210 | ENSP00000164265 | 2030 | SVVQLRRQRDPDFEWNEGIC | Homo sapiens |
| 1607 | 19072 | G Protein-Coupled Receptor Ls19072 | ENSP00000164265 | 2032 | PAVGWHDTSERFYTHGC | Homo sapiens |
| 1608 | 19072 | G Protein-Coupled Receptor Ls19072 | ENSP00000164265 | 2047 | AVQVGRQADRRRAFTVPT | Homo sapiens |
| 1609 | 19501 | G Protein-Coupled Receptor KIAA0758 | Q9UIZ3 | 1513 | EHEPAGEEALRQKRAVATK | Homo sapiens |
| 1610 | 19501 | G Protein-Coupled Receptor KIAA0758 | Q9UIZ3 | 1514 | ALRQKRAVATKSPTAE | Homo sapiens |
| 1611 | 19501 | G Protein-Coupled Receptor KIAA0758 | Q9UIZ3 | 1515 | CEKEVLSSNVSWRYEEQQLE | Homo sapiens |
| 1612 | 19501 | G Protein-Coupled Receptor KIAA0758 | Q9UIZ3 | 1518 | RLANNTGGWDSSGCCWEEGD | Homo sapiens |
| 1613 | 19501 | G Protein-Coupled Receptor KIAA0758 | Q9UIZ3 | 1519 | CKQEKSSLFQISKSIG | Homo sapiens |
| 1614 | 21632 | G Protein-Coupled Receptor Ls21632 | BAA96055.1 | 2164 | CTAFQRREGGVPGRPGSPG | Homo sapiens |
| 1615 | 21632 | G Protein-Coupled Receptor Ls21632 | BAA96055.1 | 2166 | APGTRASRRCDRAGRWE | Homo sapiens |
| 1616 | 21632 | G Protein-Coupled Receptor Ls21632 | BAA96055.1 | 2167 | CPAERVANNRGDFRWPR | Homo sapiens |
| 1617 | 21632 | G Protein-Coupled Receptor Ls21632 | BAA96055.1 | 2171 | QNPPEPEPPADGQLRFRC | Homo sapiens |
| 1618 | 21632 | G Protein-Coupled Receptor Ls21632 | BAA96055.1 | 2175 | VPLGGGAPGTRASRRC | Homo sapiens |
| 1619 | 22315 | G Protein-Coupled Receptor GPR92/GPR93 | LR29 | 425 | PAARVHRPSCRVRD | Homo sapiens |
| 1620 | 22315 | G Protein-Coupled Receptor GPR92/GPR93 | LR29 | 426 | TLARPDATQSQRRRKTVRL | Homo sapiens |
| 1621 | 22315 | G Protein-Coupled Receptor GPR92/GPR93 | LR29 | 427 | RSKLVAASVPARDVRG | Homo sapiens |
| 1622 | 22315 | G Protein-Coupled Receptor GPR92/GPR93 | LR29 | 428 | AQSERSAVTTDATRPD | Homo sapiens |

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| 1623 | 22925 | Latrophilin-3 | O94867 | 1138 | CSGKSTESSIGSGKTSGSR | Homo sapiens |
| 1624 | 22925 | Latrophilin-3 | O94867 | 1140 | ENHQPHHYTRRRIPQD | Homo sapiens |
| 1625 | 22925 | Latrophilin-3 | O94867 | 1141 | ESVTSTQTTEPPPAKC | Homo sapiens |
| 1626 | 22925 | Latrophilin-3 | O94867 | 1497 | SSASLNREGLLNINARD | Homo sapiens |
| 1627 | 25359 | G Protein-Coupled Receptor GPR34 | O95853 | 1255 | DRYKINRSIQQRKAIT | Homo sapiens |
| 1628 | 25359 | G Protein-Coupled Receptor GPR34 | O95853 | 1257 | CFHYRDKHNAKGEAIFN | Homo sapiens |
| 1629 | 25359 | G Protein-Coupled Receptor GPR34 | O95853 | 1258 | RISKRRSKFPNSGKYA | Homo sapiens |
| 1630 | 25359 | G Protein-Coupled Receptor GPR34 | O95853 | 1259 | CQLLFRFRQGEPSRSESTSE | Homo sapiens |
| 1631 | 30698 | G Protein-Coupled Receptor Ls30698 | CAC27252.1 | 2721 | RLQEILITEKINKTR | Homo sapiens |
| 1632 | 30698 | G Protein-Coupled Receptor Ls30698 | CAC27252.1 | 2722 | KGKSRAAENASLGPTN | Homo sapiens |
| 1633 | 30698 | G Protein-Coupled Receptor Ls30698 | CAC27252.1 | 2723 | LLFGTIMDHKIRDALR | Homo sapiens |
| 1634 | 30698 | G Protein-Coupled Receptor Ls30698 | CAC27252.1 | 2724 | RPSIGSSKSQDVVIMRI | Homo sapiens |
| 1635 | 30875 | G Protein-Coupled Receptor GPR87/GPR95 | NP_076404.1 | 1579 | KLPNNELHGQESHNSGN | Homo sapiens |
| 1636 | 30875 | G Protein-Coupled Receptor GPR87/GPR95 | NP_076404.1 | 1580 | SGNRSDGPGKNTLHNEFD | Homo sapiens |
| 1637 | 30875 | G Protein-Coupled Receptor GPR87/GPR95 | NP_076404.1 | 1581 | RQFISQSSRKRKHNQSIK | Homo sapiens |
| 1638 | 30875 | G Protein-Coupled Receptor GPR87/GPR95 | NP_076404.1 | 1582 | SHLDRLDESQAQKILYYC | Homo sapiens |
| 1639 | 30875 | G Protein-Coupled Receptor GPR87/GPR95 | NP_076404.1 | 1584 | CRSFSRRLLFKKSNIRTRSE | Homo sapiens |
| 1640 | 30875 | G Protein-Coupled Receptor GPR87/GPR95 | NP_076404.1 | 1585 | ESIRSLQSVRRSEVRIYYD | Homo sapiens |
| 1641 | 31568 | G Protein-Coupled Receptor RE2 | O75963 | 331 | CRKELSNLTETEEGEGGV | Homo sapiens |
| 1642 | 31568 | G Protein-Coupled Receptor RE2 | O75963 | 332 | EEDAQRTRGRKNSSTSTSSS | Homo sapiens |
| 1643 | 31568 | G Protein-Coupled Receptor RE2 | O75963 | 333 | CFGDRYVREPFVQRQRISIR | Homo sapiens |
| 1644 | 31568 | G Protein-Coupled Receptor RE2 | O75963 | 334 | HSSSTGDTGFSCQDSGNL | Homo sapiens |

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| 1645 | 36534 | Receptor RE2 G Protein-Coupled Receptor GPR49 | O75473 | 1232 | CQKLQKIDLRHNEVEIKVD | Homo sapiens |
| 1646 | 36534 | G Protein-Coupled Receptor GPR49 | O75473 | 1233 | NKGDNSSMDDLHKDA | Homo sapiens |
| 1647 | 36534 | G Protein-Coupled Receptor GPR49 | O75473 | 1234 | QDERDLEDFLLDFEED | Homo sapiens |
| 1648 | 36534 | G Protein-Coupled Receptor GPR49 | O75473 | 1235 | ERGFVSVKYSAKFETKA | Homo sapiens |
| 1649 | 36534 | G Protein-Coupled Receptor GPR49 | O75473 | 1236 | RSKHPSLMSINSDDVEKQSC | Homo sapiens |
| 1650 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | NP_004727.1 | 2597 | DAQKESTGVTLRQRR | Homo sapiens |
| 1651 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | NP_004727.1 | 2600 | CKKINQLUSETAEVVTN | Homo sapiens |
| 1652 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | NP_004727.1 | 2610 | ADDQTLLEQMMDDQDDG | Homo sapiens |
| 1653 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | NP_004727.1 | 2672 | KYNGQSILRRPLASQ | Homo sapiens |
| 1654 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | NP_004727.1 | 2673 | KRYFAKFEKFFQTC | Homo sapiens |
| 1655 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | NP_004727.1 | 2674 | DGDRQKAMKRLRVPPL | Homo sapiens |
| 1656 | 40881 | Lung Seven Transmembrane Receptor 2 (LUSTR2) | CAC28410.1 | 2103 | RVRSGRVRYSYTRDFQDC | Homo sapiens |
| 1657 | 40881 | Lung Seven Transmembrane Receptor 2 (LUSTR2) | CAC28410.1 | 2105 | CNNSVPGKEHPFDITVMIRE | Homo sapiens |
| 1658 | 40881 | Lung Seven Transmembrane Receptor 2 (LUSTR2) | CAC28410.1 | 2106 | APSPGGLPKPQATVPRKVD | Homo sapiens |
| 1659 | 40881 | Lung Seven Transmembrane Receptor 2 (LUSTR2) | CAC28410.1 | 2135 | AASKPKSTPAVIGGPSGKD | Homo sapiens |
| 1660 | 42697 | G Protein-Coupled Receptor GPR64 | O00406 | 1261 | KRSELNKTQLTSLSETYFIMC | Homo sapiens |
| 1661 | 42697 | G Protein-Coupled Receptor GPR64 | O00406 | 1262 | GNASTERNGVSFSVQNGDVC | Homo sapiens |
| 1662 | 42697 | G Protein-Coupled Receptor GPR64 | O00406 | 1263 | CRICKKKQLGAGRKTSIQD | Homo sapiens |
| 1663 | 42697 | G Protein-Coupled Receptor GPR64 | O00406 | 1264 | DFTGKQHMIFNEKEDSC | Homo sapiens |

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| 1664 | 45937 | KIAA1624 Protein | AAK57695 | 2072 | PNVNPASAGNQTKTQD | Homo sapiens |
| 1665 | 45937 | KIAA1624 Protein | AAK57695 | 2073 | RVKSPPEAGTQLPKIFS | Homo sapiens |
| 1666 | 45937 | KIAA1624 Protein | AAK57695 | 2074 | KDGYMVVNVSSLSNPEP | Homo sapiens |
| 1667 | 45937 | KIAA1624 Protein | AAK57695 | 2076 | RSTVDSKAMGEKFSVHNG | Homo sapiens |
| 1668 | 50847 | Neurotensin Receptor type 2 | O95665 | 1265 | CQPLRARSLTPRTR | Homo sapiens |
| 1669 | 50847 | Neurotensin Receptor type 2 | O95665 | 1266 | GQKHELETADGEPEASRVC | Homo sapiens |
| 1670 | 50847 | Neurotensin Receptor type 2 | O95665 | 1267 | KKTFIQGGQVSLVRHKD | Homo sapiens |
| 1671 | 50847 | Neurotensin Receptor type 2 | O95665 | 1269 | CGEHHPMKRLPPKPQSP | Homo sapiens |
| 1672 | 50847 | Neurotensin Receptor type 2 | O95665 | 2294 | STSTPGSSTPSRLLESEE | Homo sapiens |
| 1673 | 50847 | Neurotensin Receptor type 2 | O95665 | 2301 | METSSPRPPRPSSNP | Homo sapiens |
| 1674 | 50847 | Neurotensin Receptor type 2 | O95665 | 2302 | CSQVVPSTPGSSSTPSR | Homo sapiens |
| 1675 | 53440 | G Protein-Coupled Receptor LS53440 | LR76 | 1850 | DPNGNESSATYFILG | Homo sapiens |
| 1676 | 53440 | G Protein-Coupled Receptor LS53440 | LR76 | 1851 | RHATVLTLPRTKIGV | Homo sapiens |
| 1677 | 53440 | G Protein-Coupled Receptor LS53440 | LR76 | 1852 | ILKTVLGLTREAQAKA | Homo sapiens |
| 1678 | 53440 | G Protein-Coupled Receptor LS53440 | LR76 | 1853 | HRFSKRRDSPLPVILAN | Homo sapiens |
| 1679 | 53440 | G Protein-Coupled Receptor LS53440 | LR76 | 1854 | KEIRQIRLRLHFVATHASE | Homo sapiens |
| 1680 | 54053 | Gaba(b) Receptor 2 | O75899 | 1416 | GEDIESTESFSNDPC | Homo sapiens |
| 1681 | 54053 | Gaba(b) Receptor 2 | O75899 | 1417 | SSKQIKTISGKTPQQYE | Homo sapiens |
| 1682 | 54053 | Gaba(b) Receptor 2 | O75899 | 1419 | AATQNRFRFTQNGKKE | Homo sapiens |
| 1683 | 54053 | Gaba(b) Receptor 2 | O75899 | 1420 | CKDPIEDINSPEHIQRR | Homo sapiens |
| 1684 | 55728 | ETL protein | NP_071442.1 | 2113 | CVLSRKIQEEVYRLFKNVP | Homo sapiens |
| 1685 | 55728 | ETL protein | NP_071442.1 | 2114 | CIAANINKTLTKRSIKEP | Homo sapiens |
| 1686 | 55728 | ETL protein | NP_071442.1 | 2115 | KLSVNHRRTHLTKLMHVE | Homo sapiens |
| 1687 | 55728 | ETL protein | NP_071442.1 | 2116 | EKITFLSHRKVTDYRSLC | Homo sapiens |
| 1688 | 55728 | ETL protein | NP_071442.1 | 2117 | SSSLLGYKNNTISAKD | Homo sapiens |
| 1689 | 56923 | Muscarinic acetylcholine | P20309 | 1421 | CSSYELOQQQSMKRSNRK | Homo sapiens |

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| 1690 | 56923 | Receptor M3 | P20309 | 1422 | KPSSEQMDQDHSSSDSWNNIN | Homo sapiens |
| 1691 | 56923 | Muscarinic acetylcholine Receptor M3 | P20309 | 1423 | DLERKADKLQAQKSVD | Homo sapiens |
| 1692 | 56923 | Muscarinic acetylcholine Receptor M3 | P20309 | 1424 | KEATLAKRFALKTRSQ | Homo sapiens |
| 1693 | 57180 | Muscarinic acetylcholine Receptor M3 | NP_062813.1 | 2097 | PPTCRPRRMSVCYRPPGNE | Homo sapiens |
| 1694 | 57180 | Leukotriene B4 Receptor BLTR2 | NP_062813.1 | 2098 | CLAVTRPFLAPLRSPALAR | Homo sapiens |
| 1695 | 57180 | Leukotriene B4 Receptor BLTR2 | NP_062813.1 | 2099 | RGARWGSGRHGARGVR | Homo sapiens |
| 1696 | 57180 | Leukotriene B4 Receptor BLTR2 | NP_062813.1 | 2100 | TAGDLLPRAGPRFLTR | Homo sapiens |
| 1697 | 57180 | Leukotriene B4 Receptor BLTR2 | NP_062813.1 | 2101 | EGSGEARGGGRSREGTME | Homo sapiens |
| 1698 | 57180 | Leukotriene B4 Receptor BLTR2 | NP_062813.1 | 2102 | RTTPQLKVVGQGRNGD | Homo sapiens |
| 1699 | 73584 | Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo) | NP_055061.1 | 1909 | RSAPTALSRRLRARTHLPGC | Homo sapiens |
| 1700 | 73584 | Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo) | NP_055061.1 | 1910 | VRGSHGEPDASLMPRSC | Homo sapiens |
| 1701 | 73584 | Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo) | NP_055061.1 | 1911 | RKEDSVLMEATSGGPTSR | Homo sapiens |
| 1702 | 73584 | Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo) | NP_055061.1 | 1912 | DQNKADIGGMLPGLTVRSV | Homo sapiens |
| 1703 | 73584 | Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo) | NP_055061.1 | 1913 | PAGWPDQSLAESDSEDPG | Homo sapiens |
| 1704 | 74514 | 5-HT5A Receptor | NP_076917.1 | 2118 | ETNHSGLGKDDLPPSP | Homo sapiens |
| 1705 | 74514 | 5-HT5A Receptor | NP_076917.1 | 2119 | SLVHELSGRRWQLGRRLC | Homo sapiens |
| 1706 | 74514 | 5-HT5A Receptor | NP_076917.1 | 2120 | LLFGWGETYSEGSEEC | Homo sapiens |
| 1707 | 74514 | 5-HT5A Receptor | NP_076917.1 | 2121 | FRVGSRKNTSVSPISE | Homo sapiens |
| 1708 | 74514 | 5-HT5A Receptor | NP_076917.1 | 2122 | RHATVTFQEGDTWREQK | Homo sapiens |

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| 1709 | 81765 | Thromboxane A2 Receptor | P21731 | 1277 | GITRFSRPAVASQRR | Homo sapiens |
| 1710 | 81765 | Thromboxane A2 Receptor | P21731 | 1278 | CHVYHGQEAAGQRPDSEVE | Homo sapiens |
| 1711 | 81765 | Thromboxane A2 Receptor | P21731 | 1279 | RNPPAMSPAGQLSRITE | Homo sapiens |
| 1712 | 81765 | Thromboxane A2 Receptor | P21731 | 1280 | RRLQPRLSRPRRVSLC | Homo sapiens |
| 1713 | 98519 | Chemokine (C motif) XC | AAA62837.1 | 155 | RYLSVVSPLSTLRVPTLRC | Homo sapiens |
| 1714 | 98519 | Receptor 1 (CCXCR1) | AAA62837.1 | 156 | SSILDITFIHKVLSGGCDYSE | Homo sapiens |
| 1715 | 98519 | Chemokine (C motif) XC | AAA62837.1 | 157 | VEILRTLFRSRKRHRHTVK | Homo sapiens |
| 1716 | 98519 | Receptor 1 (CCXCR1) | AAA62837.1 | 158 | QTLFRTQIIRSCEAKQOLE | Homo sapiens |
| 1717 | 98519 | Chemokine (C motif) XC | AAA62837.1 | 159 | RLQAPSPASIPHSFGAFAYE | Homo sapiens |
| 1718 | 130108 | Chemokine (C motif) XC | NP_006785.1 | 1589 | RIEYYSYVNSSPSQEE | Homo sapiens |
| 1719 | 130108 | Receptor GPR75 | NP_006785.1 | 1590 | IMIAQLTRKNAQVRKC | Homo sapiens |
| 1720 | 130108 | G Protein-Coupled Receptor GPR75 | NP_006785.1 | 1591 | RNQINYNKLQHVQTRGYTKS | Homo sapiens |
| 1721 | 130108 | Receptor GPR75 | NP_006785.1 | 1592 | SRLQLVSAINLSTAKD | Homo sapiens |
| 1722 | 130108 | G Protein-Coupled Receptor GPR75 | NP_006785.1 | 1593 | CKQKTRLRAMGKGNLEVNIR | Homo sapiens |
| 1723 | 130108 | G Protein-Coupled Receptor GPR75 | NP_006785.1 | 1594 | NSAYMLSPKPKQKKFVDQAC | Homo sapiens |
| 1724 | 133117 | Receptor GPR75 | AAC98506.1 | 1218 | CKVQDSNRRKMLPTQF | Homo sapiens |
| 1725 | 133117 | G Protein-Coupled Receptor RAIG1 | AAC98506.1 | 1219 | HAVSLTKLVGRKPLS | Homo sapiens |
| 1726 | 133117 | Receptor RAIG1 | AAC98506.1 | 1220 | NVNVFSELSAPRRNED | Homo sapiens |
| 1727 | 133117 | G Protein-Coupled Receptor RAIG1 | AAC98506.1 | 1221 | TKQRNPMIDYPVEDAFC | Homo sapiens |
| 1728 | 133117 | G Protein-Coupled Receptor RAIG1 | AAC98506.1 | 1222 | CKPQLVKKSYGVENRA | Homo sapiens |
| 1729 | 152198 | Tachykinin Receptor 2 | AAB05897.1 | 1286 | RRVPGHQAHGANLRH | Homo sapiens |
| 1730 | 152198 | Tachykinin Receptor 2 | AAB05897.1 | 1287 | KEDKLELTPTLSLSTRVNC | Homo sapiens |
| 1731 | 152198 | Tachykinin Receptor 2 | AAB05897.1 | 1288 | KETLFMAGDTAPSEATSGEA | Homo sapiens |

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| 1732 | 152198 | Tachykinin Receptor 2 | AAB05897.1 | 1290 | CVVAWPEDSGGKTL | Homo sapiens |
| 1733 | 152201 | Thyrotropin Receptor | P16473 | 1445 | RQRKSVNALNSPLHQE | Homo sapiens |
| 1734 | 152201 | Thyrotropin Receptor | P16473 | 1446 | KFQDTHNNAHYVFFEEQED | Homo sapiens |
| 1735 | 152201 | Thyrotropin Receptor | P16473 | 1449 | CHVKIYTVRNPNQYNPGDK | Homo sapiens |
| 1736 | 152201 | Thyrotropin Receptor | P16473 | 1450 | CKRQAQAAGVGRVPPKKNSTD | Homo sapiens |
| 1737 | 152245 | C-C Chemokine Receptor 2 | NP_000639.1 | 1896 | SPSRFIRNTNESGEEVT | Homo sapiens |
| 1738 | 152245 | C-C Chemokine Receptor 2 | NP_000639.1 | 1898 | CQKEDSVVCGPYFPRGWNN | Homo sapiens |
| 1739 | 152245 | C-C Chemokine Receptor 2 | NP_000639.1 | 1899 | SGEEVTIFFDYDYGAPCHKF | Homo sapiens |
| 1740 | 152299 | Interleukin-8 Receptor A | P25024 | 806 | DFDDLIFTGMPPADEDYSPC | Homo sapiens |
| 1741 | 152299 | Interleukin-8 Receptor A | P25024 | 807 | CWGLSMNLSPFLFRQAYH | Homo sapiens |
| 1742 | 152299 | Interleukin-8 Receptor A | P25024 | 808 | RHRVTSYSSSVNVSSN | Homo sapiens |
| 1743 | 152299 | Interleukin-8 Receptor A | P25024 | 1490 | CMLETETLNKYVVIAYALV | Homo sapiens |
| 1744 | 158822 | Mas Proto-Oncogene | NP_002368.1 | 1527 | EEPTNISTGRNASVGNHRQ | Homo sapiens |
| 1745 | 158822 | Mas Proto-Oncogene | NP_002368.1 | 1528 | RNPFTVYTHLSIAD | Homo sapiens |
| 1746 | 158822 | Mas Proto-Oncogene | NP_002368.1 | 1529 | YVMCIDREEESHRSNDCRAV | Homo sapiens |
| 1747 | 158822 | Mas Proto-Oncogene | NP_002368.1 | 1530 | SSTILVVKIRKNTWASHSSK | Homo sapiens |
| 1748 | 158822 | Mas Proto-Oncogene | NP_002368.1 | 1531 | TRAFKDEMGPRRQKDNK | Homo sapiens |
| 1749 | 159152 | G Protein-Coupled Receptor GPR43 | NP_005297.1 | 1578 | ERYLGVAFPVQYKLSRRPL | Homo sapiens |
| 1750 | 159152 | G Protein-Coupled Receptor GPR43 | NP_005297.1 | 1586 | QYLNTTEQVRSGNEITC | Homo sapiens |
| 1751 | 159152 | G Protein-Coupled Receptor GPR43 | NP_005297.1 | 1588 | EGTNEDRGVGGGEGMPSSD | Homo sapiens |
| 1752 | 159152 | G Protein-Coupled Receptor GPR43 | NP_005297.1 | 1616 | RGLQLVLRNQGSLLGRRGKD | Homo sapiens |
| 1753 | 159973 | Vasoactive Intestinal Polypeptide Receptor 1 | P32241 | 1292 | KQCLEEAQLENETIGCS | Homo sapiens |
| 1754 | 159973 | Vasoactive Intestinal Polypeptide Receptor 1 | P32241 | 1296 | KDLALFDSGESDQCSE | Homo sapiens |
| 1755 | 159973 | Vasoactive Intestinal Polypeptide Receptor 1 | P32241 | 1297 | LQKLRRPPDIRKSDSSP | Homo sapiens |
| 1756 | 159973 | Vasoactive Intestinal Polypeptide Receptor 1 | P32241 | 1298 | NPKYRHPSGGSNGATC | Homo sapiens |
| 1757 | 160040 | Vasoactive Intestinal Polypeptide Receptor 2 | P41587 | 1299 | KVFSNFYSKAGNISKNC | Homo sapiens |
| 1758 | 160040 | Vasoactive Intestinal Polypeptide Receptor 2 | P41587 | 1301 | CGYSDPEDESKITFYI | Homo sapiens |
| 1759 | 160040 | Vasoactive Intestinal Polypeptide Receptor 2 | P41587 | 1305 | KRKWRSRCPTPSASRD | Homo sapiens |

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| 1760 | 160040 | Polypeptide Receptor 2 Vasoactive Intestinal | P41587 | 1306 | CGSSFSRNGSEGALQFHR | Homo sapiens |
| 1761 | 160055 | Polypeptide Receptor 2 Motilin Receptor (GPR38) | AAC26081.1 | 132 | REPPWPALPPCDERRCS | Homo sapiens |
| 1762 | 160055 | Motilin Receptor (GPR38) | AAC26081.1 | 134 | SPSPGPETAEEAAALFSREC | Homo sapiens |
| 1763 | 160055 | Motilin Receptor (GPR38) | AAC26081.1 | 135 | SSRRPLRGPAASGRERGHRRQ | Homo sapiens |
| 1764 | 160055 | Motilin Receptor (GPR38) | AAC26081.1 | 136 | RKSRPRGFHRSRDTAG | Homo sapiens |
| 1765 | 160059 | G Protein-coupled Receptor GPR40 | NP_005294.1 | 1595 | NPLVTGYLGRGPGLKTV | Homo sapiens |
| 1766 | 160059 | G Protein-coupled Receptor GPR40 | NP_005294.1 | 1596 | GRYLGAAPFLGYQAARRPC | Homo sapiens |
| 1767 | 160059 | G Protein-coupled Receptor GPR40 | NP_005294.1 | 1597 | CLEAWDPASAGPARFS | Homo sapiens |
| 1768 | 160059 | G Protein-coupled Receptor GPR40 | NP_005294.1 | 1598 | CLRALARSLTHRRKLR | Homo sapiens |
| 1769 | 160059 | G Protein-coupled Receptor GPR40 | NP_005294.1 | 1599 | NASNVASFLYPNLGGSWRK | Homo sapiens |
| 1770 | 160059 | G Protein-coupled Receptor GPR40 | NP_005294.1 | 1617 | TVSLPLKAVEALASGA | Homo sapiens |
| 1771 | 160059 | G Protein-coupled Receptor GPR40 | NP_005294.1 | 1618 | DHSNTSLGINTPVNGSPVC | Homo sapiens |
| 1772 | 160189 | G Protein-Coupled Receptor GPR54 | BAB55446 | 1926 | CSEAFPSRALERAFALY | Homo sapiens |
| 1773 | 160189 | G Protein-Coupled Receptor GPR54 | BAB55446 | 1927 | ERAGAVRAKVSRRLVAAW | Homo sapiens |
| 1774 | 160189 | G Protein-Coupled Receptor GPR54 | BAB55446 | 1928 | RRPGSPDPAAPHAELHRLGS | Homo sapiens |
| 1775 | 160189 | G Protein-Coupled Receptor GPR54 | BAB55446 | 1929 | GAPANASGCPGCGANASD | Homo sapiens |
| 1776 | 160202 | Adrenomedullin Receptor (ADMR) | O15218 | 390 | DLFNHTLSECHVELSQST | Homo sapiens |
| 1777 | 160202 | Adrenomedullin Receptor (ADMR) | O15218 | 391 | NVLTAQLRQPGQPKSRRHC | Homo sapiens |
| 1778 | 160202 | Adrenomedullin Receptor (ADMR) | O15218 | 392 | KDQTKAGTCASSSSCSTQ | Homo sapiens |
| 1779 | 160202 | Adrenomedullin Receptor (ADMR) | O15218 | 484 | KGDSQPAAAAPHPEPSLS | Homo sapiens |
| 1780 | 160204 | G Protein-Coupled Receptor RTA | LR85 | 1977 | CRARRRQRSTKLNHVILA | Homo sapiens |

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| 1781 | 160204 | G Protein-Coupled Receptor RTA | LR85 | 1983 | CPGLSEAPELYRRGFLTIEQ | Homo sapiens |
| 1782 | 160204 | G Protein-Coupled Receptor RTA | LR85 | 1985 | RDGAELGEAGGSTPNTVT | Homo sapiens |
| 1783 | 160204 | G Protein-Coupled Receptor RTA | LR85 | 2173 | LAGRDKSQRLWEPLRV | Homo sapiens |
| 1784 | 160206 | G Protein-Coupled Receptor GPR32 | NP_001497.1 | 1678 | RTTRKWNCGCTHCYLAFNSD | Homo sapiens |
| 1785 | 160206 | G Protein-Coupled Receptor GPR32 | NP_001497.1 | 1679 | RAKLLREGVWHANRPKR | Homo sapiens |
| 1786 | 160206 | G Protein-Coupled Receptor GPR32 | NP_001497.1 | 1680 | RRVMLKEIYHPRMLLI | Homo sapiens |
| 1787 | 160206 | G Protein-Coupled Receptor GPR32 | NP_001497.1 | 1682 | SALARAFGEEEFSSC | Homo sapiens |
| 1788 | 160206 | G Protein-Coupled Receptor GPR32 | NP_001497.1 | 1683 | RSCSRKMNSSGCLSEE | Homo sapiens |
| 1789 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | AAD21055.1 | 151 | PGPDRDATCNSRQAALAVSK | Homo sapiens |
| 1790 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | AAD21055.1 | 152 | SSHAAVSLRLQHRGRRRPGR | Homo sapiens |
| 1791 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | AAD21055.1 | 153 | DDSELGGAGSSRRRRTSSTA | Homo sapiens |
| 1792 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | AAD21055.1 | 154 | DGPPEPGAEEHLELEPGPRR | Homo sapiens |
| 1793 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2220 | CPILEQMSRLQSHSNTSIRY | Homo sapiens |
| 1794 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2221 | RYIDHAAVLLHGLASLLGLV | Homo sapiens |
| 1795 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2222 | CRMIRQTVTTWVUHLALSDL | Homo sapiens |
| 1796 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2223 | SASLPFTYFLAVGHSWE | Homo sapiens |
| 1797 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2224 | CLVLWALAVLNTVPYFVFRD | Homo sapiens |
| 1798 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2225 | CYNNVLLNPGPDRDAT | Homo sapiens |
| 1799 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2226 | CNSRQAALAVSKFLAFLVP | Homo sapiens |
| 1800 | 160210 | G Protein-Coupled Receptor GPR44 (CRTH2) | NP_004769.1 | 2228 | RGLPFVTSIAFFNSVANPVL | Homo sapiens |

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| 1801 | 160210 | Receptor GPR44 (CRTH2) G Protein-Coupled | NP_004769.1 | 2229 | CSRPEEPRGPARGLLGWLLGS | Homo sapiens |
| 1802 | 160210 | Receptor GPR44 (CRTH2) G Protein-Coupled | NP_004769.1 | 2230 | CAASPTQTGPLNIRALSS | Homo sapiens |
| 1803 | 160212 | Receptor GPR44 (CRTH2) G Protein-Coupled | Q9V2T5 | 444 | KEINDRRARFSPSEVDSSRE | Homo sapiens |
| 1804 | 160212 | Receptor GPR52 G Protein-Coupled | Q9V2T5 | 445 | CVKDQEAQEPKPRKRANS | Homo sapiens |
| 1805 | 160212 | Receptor GPR52 G Protein-Coupled | Q9V2T5 | 446 | RWTEWRILNMSSGIVNASER | Homo sapiens |
| 1806 | 160212 | Receptor GPR52 G Protein-Coupled | Q9V2T5 | 622 | HSCPLGFGHYSVVDVCIFE | Homo sapiens |
| 1807 | 160217 | Receptor GPR52 G Protein-Coupled | AAD22410.1 | 161 | GKVEKYMCFHNMSDDTWSAK | Homo sapiens |
| 1808 | 160217 | Receptor GPR55 G Protein-Coupled | AAD22410.1 | 162 | RSIHLLGRRDHTQDWVQQK | Homo sapiens |
| 1809 | 160217 | Receptor GPR55 G Protein-Coupled | AAD22410.1 | 163 | CRAKQSSIFLQLSM | Homo sapiens |
| 1810 | 160217 | Receptor GPR55 G Protein-Coupled | AAD22410.1 | 164 | KEFRMNIRAHPRSRVQLVLQ | Homo sapiens |
| 1811 | 160219 | Receptor GPR35 G Protein-Coupled | AAC52028.1 | 2 | AQRPPTDVGGAEATRKAAR | Homo sapiens |
| 1812 | 160219 | Receptor GPR35 G Protein-Coupled | AAC52028.1 | 3 | KEFQEAALAVAPRAKAHK | Homo sapiens |
| 1813 | 160219 | Receptor GPR35 G Protein-Coupled | AAC52028.1 | 123 | GGFCFRSTRHNFNSMR | Homo sapiens |
| 1814 | 160219 | Receptor GPR35 G Protein-Coupled | AAC52028.1 | 125 | ETIRRALYITSKLSDANC | Homo sapiens |
| 1815 | 160221 | Receptor GPR27 G Protein-Coupled | LR6 | 335 | FPVLDGGGGDEDAAPCALEQ | Homo sapiens |
| 1816 | 160221 | Receptor GPR27 G Protein-Coupled | LR6 | 338 | RGARRLLVLEEFKTEKRLC | Homo sapiens |
| 1817 | 160221 | Receptor GPR27 G Protein-Coupled | LR6 | 496 | NASEPGSGSGGEEAAALGLK | Homo sapiens |
| 1818 | 160221 | Receptor GPR27 G Protein-Coupled | Q54897 | 515 | GURALACLPVAVMLAARRA | Mus musculus |
| 1819 | 160221 | Receptor GPR27 G Protein-Coupled | LR6 | 1291 | RPAGPGRGARILLVLE | Homo sapiens |

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| 1820 | 160222 | G Protein-Coupled Receptor GPR72 | NP_057624.1 | 1606 | CQRPPKPQEDGGQSPV | Homo sapiens |
| 1821 | 160222 | G Protein-Coupled Receptor GPR72 | NP_057624.1 | 1607 | CNMIGDVTEQYFALRRK | Homo sapiens |
| 1822 | 160222 | G Protein-Coupled Receptor GPR72 | NP_057624.1 | 1610 | EGRADQSAEAAALVP | Homo sapiens |
| 1823 | 160222 | G Protein-Coupled Receptor GPR72 | NP_057624.1 | 1611 | GNFVGRRRYGAESQNPTVK | Homo sapiens |
| 1824 | 160223 | G Protein-Coupled Receptor G2A | NP_037477.1 | 1600 | RIFRSIKQSMGLSAAQKAK | Homo sapiens |
| 1825 | 160223 | G Protein-Coupled Receptor G2A | NP_037477.1 | 1601 | CDRFVAVVVALESRRR | Homo sapiens |
| 1826 | 160223 | G Protein-Coupled Receptor G2A | NP_037477.1 | 1604 | ATDHSRQEVSRHKGWKE | Homo sapiens |
| 1827 | 160223 | G Protein-Coupled Receptor G2A | NP_037477.1 | 1605 | KTDVTRLTHSRDTEELQS | Homo sapiens |
| 1828 | 160224 | Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2) | O60883 | 403 | ETQEQQSRSKRGTEDEAK | Homo sapiens |
| 1829 | 160224 | Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2) | O60883 | 404 | SPNPDKGGTPDSGQELR | Homo sapiens |
| 1830 | 160224 | Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2) | O60883 | 405 | CQLVTWRVRGPPGRKSE | Homo sapiens |
| 1831 | 160224 | Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2) | O60883 | 406 | AAANGSDNKLKTEVSS | Homo sapiens |
| 1832 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 70 | PRDSFRGSRSLFRMRE | Homo sapiens |
| 1833 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 71 | ERFATMVRPVAESGATKTSR | Homo sapiens |
| 1834 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 72 | RLVQASGGQKAPRPAAR | Homo sapiens |
| 1835 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 73 | RAVEAHSGASTDSSLRPRD | Homo sapiens |
| 1836 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 1914 | IFRLVQASGGQKAPRPAAR | Homo sapiens |
| 1837 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 1915 | DSSLRPRDSFRGSRSLFRM | Homo sapiens |
| 1838 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 1916 | RSLSFRMREPLSSISVR | Homo sapiens |
| 1839 | 160225 | Sphingolipid Receptor Edg6 | CAA04118.1 | 1917 | GPEDGGGLGALRGLSVAASC | Homo sapiens |
| 1840 | 160228 | T-Cell Death-Associated Gene 8 (GPR65) | NP_003599.1 | 1625 | ANIGSLCVSFLQPKKE | Homo sapiens |
| 1841 | 160228 | T-Cell Death-Associated Gene 8 (GPR65) | NP_003599.1 | 1626 | ETIFNAVMLWEDETVE | Homo sapiens |
| 1842 | 160228 | T-Cell Death-Associated Gene 8 (GPR65) | NP_003599.1 | 1627 | CNRKVYQAVRHINKATENKE | Homo sapiens |

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| 1843 | 160228 | T-Cell Death-Associated Gene 8 (GPR65) | NP_003599.1 | 1628 | CILEHAVNFEDHSNSGKR | Homo sapiens |
| 1844 | 160228 | T-Cell Death-Associated Gene 8 (GPR65) | NP_003599.1 | 1629 | CNTSQRRQRKRILSVSTKD | Homo sapiens |
| 1845 | 160228 | T-Cell Death-Associated Gene 8 (GPR65) | NP_003599.1 | 2303 | CDAEKSNFLCYDKYPLEK | Homo sapiens |
| 1846 | 160300 | Encephalopsin | NP_055137.1 | 2131 | CTVDWKSKDANDSSFV | Homo sapiens |
| 1847 | 160300 | Encephalopsin | NP_055137.1 | 2132 | CVEDLQITGVIKILKYEK | Homo sapiens |
| 1848 | 160300 | Encephalopsin | NP_055137.1 | 2133 | CQRPADLPAAAGSEMQRIP | Homo sapiens |
| 1849 | 160300 | Encephalopsin | NP_055137.1 | 2134 | TSDESLSVDDSDKTIG | Homo sapiens |
| 1850 | 160312 | Spingolipid Receptor Edg5 | O95136 | 1018 | ERHVAIAKVLYGSDKSC | Homo sapiens |
| 1851 | 160312 | Spingolipid Receptor Edg5 | O95136 | 1019 | RSRDLRREVLRLPLQC | Homo sapiens |
| 1852 | 160312 | Spingolipid Receptor Edg5 | O95136 | 1020 | QEHVNYTKETLETQET | Homo sapiens |
| 1853 | 160312 | Spingolipid Receptor Edg5 | O95136 | 1021 | GRRRVGTPGHHLLPLR | Homo sapiens |
| 1854 | 160314 | G Protein-Coupled Receptor GPR103 | ENSMIPRT221753 | 1922 | MMRKKAKFSLRENIPVEETKG | Homo sapiens |
| 1855 | 160314 | G Protein-Coupled Receptor GPR103 | ENSMIPRT221753 | 1923 | MMIEYSNFEKEYDDVTIKM | Homo sapiens |
| 1856 | 160314 | G Protein-Coupled Receptor GPR103 | ENSMIPRT221753 | 1924 | CEQTEEEKKKLRHLALFRSE | Homo sapiens |
| 1857 | 160314 | G Protein-Coupled Receptor GPR103 | ENSMIPRT221753 | 1925 | KKRVGDGGSVLRTIHGKEMSK | Homo sapiens |
| 1858 | 160317 | Neuropeptide FF 2 Receptor | Q9Y5X5 | 463 | DRARRERFIMNEKWDTNISSE | Homo sapiens |
| 1859 | 160317 | Neuropeptide FF 2 Receptor | Q9Y5X5 | 464 | RKNQEQWHVVSRRKQKIHK | Homo sapiens |
| 1860 | 160317 | Neuropeptide FF 2 Receptor | Q9Y5X5 | 465 | RKSAEKPOQELVMEELKE | Homo sapiens |
| 1861 | 160317 | Neuropeptide FF 2 Receptor | Q9Y5X5 | 500 | RQSAGDRRRLGLSRQTAK | Homo sapiens |
| 1862 | 160324 | G Protein-Coupled Receptor | NP_076403.1 | 1619 | DRFLKIRPLRNIFLKKP | Homo sapiens |
| 1863 | 160324 | GPR86/GPR94/P2Y13 G Protein-Coupled Receptor | NP_076403.1 | 1620 | MILSNKEATPSSVKKC | Homo sapiens |
| 1864 | 160324 | GPR86/GPR94/P2Y13 G Protein-Coupled Receptor | NP_076403.1 | 1622 | VYDSYRKS KSKDRKNIN | Homo sapiens |
| 1865 | 160324 | GPR86/GPR94/P2Y13 G Protein-Coupled Receptor | NP_076403.1 | 1623 | ARVPYTHSQTNNTKDC | Homo sapiens |

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| 1866 | 160324 | G Protein-Coupled Receptor | NP_076403.1 | 1624 | CMQGRKTTASSQENHSSQTD | Homo sapiens |
| 1867 | 160329 | GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4 | O76067 | 1308 | CANDSDTLELPDSSRA | Homo sapiens |
| 1868 | 160329 | Proteinase-Activated Receptor 4 | O76067 | 1309 | PLRARALGRRLALGLC | Homo sapiens |
| 1869 | 160329 | Proteinase-Activated Receptor 4 | O76067 | 1310 | LQRQTRLARSDRVLC | Homo sapiens |
| 1870 | 160329 | Proteinase-Activated Receptor 4 | O76067 | 1311 | RDKVVRAGLQIRSPGDT | Homo sapiens |
| 1871 | 160330 | G Protein-Coupled-Receptor TM7XN1/GPR56 | Q9Y653 | 1213 | CELRDLQLLSQFLKHPQK | Homo sapiens |
| 1872 | 160330 | G Protein-Coupled-Receptor TM7XN1/GPR56 | Q9Y653 | 1214 | TSVRFMGDMVSEEDR | Homo sapiens |
| 1873 | 160330 | G Protein-Coupled-Receptor TM7XN1/GPR56 | Q9Y653 | 1215 | RQEEEGSEIMEYSVLLP | Homo sapiens |
| 1874 | 160330 | G Protein-Coupled-Receptor TM7XN1/GPR56 | Q9Y653 | 1216 | RTLFRQRTKGRSGAEKR | Homo sapiens |
| 1875 | 160387 | Glucagon-Like Peptide 2 Receptor | O95838 | 1312 | GSLLFETTRKWAQYKQAC | Homo sapiens |
| 1876 | 160387 | Glucagon-Like Peptide 2 Receptor | O95838 | 1313 | QTENATDIWQDDSEC | Homo sapiens |
| 1877 | 160387 | Glucagon-Like Peptide 2 Receptor | O95838 | 1315 | CPKKLSEGDGAEKLRK | Homo sapiens |
| 1878 | 160387 | Glucagon-Like Peptide 2 Receptor | O95838 | 1316 | QQDHARWPRGSSLSEC | Homo sapiens |
| 1879 | 160388 | Latrophilin-1 | O94910 | 1121 | EPTSTHSEHQSGAWC | Homo sapiens |
| 1880 | 160388 | Latrophilin-1 | O94910 | 1126 | CEPREVRRVQWPATQQ | Homo sapiens |
| 1881 | 160388 | Latrophilin-1 | O94910 | 1129 | RSQDFPPGDGGPEPPR | Homo sapiens |
| 1882 | 160388 | Latrophilin-1 | O94910 | 1131 | CTAEDGATSRPLSSPPGRDS | Homo sapiens |
| 1883 | 160388 | Latrophilin-1 | O94910 | 1706 | RESAGKNYNKMHKRERIC | Homo sapiens |
| 1884 | 160388 | Latrophilin-1 | O94910 | 1707 | RDSYPDSSPEGPSEALP | Homo sapiens |
| 1885 | 160390 | Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2) | NP_001399.1 | 1938 | QVGPCRSLSRGRGSSGAC | Homo sapiens |
| 1886 | 160390 | Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2) | NP_001399.1 | 1939 | CRDAGTELTGHLVPHHDGLR | Homo sapiens |

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| 1887 | 160390 | Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2) | NP_001399.1 | 1940 | CKLAQAPGLRAGERSPEESL | Homo sapiens |
| 1888 | 160390 | Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2) | NP_001399.1 | 1942 | RVSDTPEGVNSLDPSHGES | Homo sapiens |
| 1889 | 160390 | Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2) | NP_001399.1 | 1943 | RSQKSQSPYIPFLREES | Homo sapiens |
| 1890 | 160397 | Lattrophilin-2 | O95490 | 1132 | CEALDSKGIKWPTQQR | Homo sapiens |
| 1891 | 160397 | Lattrophilin-2 | O95490 | 1133 | DILDAQLQELKPSEKD | Homo sapiens |
| 1892 | 160397 | Lattrophilin-2 | O95490 | 1136 | RTHSLLYQPQKKVKSE | Homo sapiens |
| 1893 | 160397 | Lattrophilin-2 | O95490 | 1137 | RDSPYESSPDMEEDL | Homo sapiens |
| 1894 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1630 | CQEQKMLRTLDLSYNNIRD | Homo sapiens |
| 1895 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1631 | CDSYANLNTEDNSLQD | Homo sapiens |
| 1896 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1632 | KGTDADAANVTILENEE | Homo sapiens |
| 1897 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1633 | ERSLSAKDIMKNGKSNHLK | Homo sapiens |
| 1898 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1634 | CNLEKEDLSENSQSSMIK | Homo sapiens |
| 1899 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1635 | KRRVTKKSGSVSVSIS | Homo sapiens |
| 1900 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1636 | CGTQSAHSDYADEEDS | Homo sapiens |
| 1901 | 160411 | G Protein-Coupled Receptor GPR48 | NP_060960.1 | 1637 | DEEDSFVSDSSDQVQAC | Homo sapiens |
| 1902 | 160435 | LS160435 Receptor | LR80 | 1918 | ATILKLRTEEAHGREQRR | Homo sapiens |
| 1903 | 160435 | LS160435 Receptor | LR80 | 1919 | CRRVPRDITDTRRESLFSAR | Homo sapiens |
| 1904 | 160435 | LS160435 Receptor | LR80 | 1920 | PLSSKRWRRRRYAVAAC | Homo sapiens |
| 1905 | 160435 | LS160435 Receptor | LR80 | 1921 | CRRMGPRSPSVIFMINL | Homo sapiens |
| 1906 | 160889 | Platelet Activating Receptor Homolog (H963) | O14626 | 1223 | MMIPIKDIKEKSNVGC | Homo sapiens |
| 1907 | 160889 | Platelet Activating Receptor Homolog (H963) | O14626 | 1224 | CLVIRQLYRNKDNENYP | Homo sapiens |
| 1908 | 160889 | Platelet Activating Receptor | O14626 | 1225 | CSTRISLFKAKEATLL | Homo sapiens |

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| 1909 | 160889 | Homolog (H963) Platelet Activating Receptor | O14626 | 1226 | ETFASPKETKAQKEKLR | Homo sapiens |
| 1910 | 161024 | Homolog (H963) Protein A | NP_062832.1 | 1690 | ESRAVGLPLGLSAGRR | Homo sapiens |
| 1911 | 161024 | Protein A | NP_062832.1 | 1691 | EDARGKRRSSLDGSES | Homo sapiens |
| 1912 | 161024 | Protein A | NP_062832.1 | 1692 | RTWWEQCVAIMSEEDG | Homo sapiens |
| 1913 | 161024 | Protein A | NP_062832.1 | 1693 | CKVRFDANGATGPGSRD | Homo sapiens |
| 1914 | 161024 | Protein A | NP_062832.1 | 1694 | RRLSHDETINIFTPRE | Homo sapiens |
| 1915 | 161024 | Protein A | NP_062832.1 | 1695 | GGPPEYLGQRHRLDEED | Homo sapiens |
| 1916 | 161024 | Protein A | NP_062832.1 | 1696 | REEITFIDEIPLSP | Homo sapiens |
| 1917 | 161024 | Protein A | NP_062832.1 | 1697 | RRPRPLGLSPRRLSLGSPE | Homo sapiens |
| 1918 | 161214 | Galanin Receptor GalR3 | AAC35944.1 | 202 | RYGALELCVPAWEDARR | Homo sapiens |
| 1919 | 161214 | Galanin Receptor GalR3 | AAC35944.1 | 203 | GAAAAEARRRATGRAGR | Homo sapiens |
| 1920 | 161214 | Galanin Receptor GalR3 | AAC35944.1 | 204 | ASRHFRARFRRLWPC | Homo sapiens |
| 1921 | 161214 | Galanin Receptor GalR3 | AAC35944.1 | 205 | RARRALRRVRPASSGPP | Homo sapiens |
| 1922 | 161221 | Urotensin-II Receptor (GPR14) | LR15 | 371 | ERYAAVLRPLDTVQRPKG | Homo sapiens |
| 1923 | 161221 | Urotensin-II Receptor (GPR14) | LR15 | 372 | RAYRPSQRASFRRRPGAR | Homo sapiens |
| 1924 | 161221 | Urotensin-II Receptor (GPR14) | LR15 | 373 | RNYRDHLRGRVRGPGSG | Homo sapiens |
| 1925 | 161221 | Urotensin-II Receptor (GPR14) | LR15 | 374 | RARFQRCSGRSLSQPTD | Homo sapiens |
| 1926 | 161249 | G Protein-Coupled Receptor GPR66 | LR20 | 394 | ARGHFDPEDLNLDEALRLK | Homo sapiens |
| 1927 | 161249 | G Protein-Coupled Receptor GPR66 | LR20 | 395 | IGLRLRRERLLMQEAKGRG | Homo sapiens |
| 1928 | 161249 | G Protein-Coupled Receptor GPR66 | LR20 | 396 | RGSAAARSRYTCRLQGH | Homo sapiens |
| 1929 | 161249 | G Protein-Coupled Receptor GPR66 | LR20 | 397 | ALCLGACCHRLRPRHSS | Homo sapiens |
| 1930 | 161251 | Purinergic Receptor P2Y10 | O00398 | 859 | CFFLLKPFRRARDWKRRYD | Homo sapiens |
| 1931 | 161251 | Purinergic Receptor P2Y10 | O00398 | 860 | PFPILRSTDNLNNKSC | Homo sapiens |
| 1932 | 161251 | Purinergic Receptor P2Y10 | O00398 | 862 | QLSRHGSSVTRSLMSKE | Homo sapiens |
| 1933 | 161251 | Purinergic Receptor P2Y10 | O00398 | 863 | LRQPPMAFQGISERQK | Homo sapiens |
| 1934 | 161293 | G Protein-Coupled Receptor Ls161293 (Herpes virus) | NP_042597.1 | 1672 | YYDDLDDVDYEEAPC | Equine herpesvirus 2 |

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| 1935 | 161293 | G Protein-Coupled Receptor Ls161293 (Herpes virus) | NP_042597.1 | 1674 | CDPYPEMSTNVWRRRAHVAK | Equine herpesvirus 2 |
| 1936 | 161293 | G Protein-Coupled Receptor Ls161293 (Herpes virus) | NP_042597.1 | 1675 | CYVVIIRLLRPRSKK | Equine herpesvirus 2 |
| 1937 | 161293 | G Protein-Coupled Receptor Ls161293 (Herpes virus) | NP_042597.1 | 1676 | CKYIFLSGDGEGKEGPT | Equine herpesvirus 2 |
| 1938 | 177147 | Neuromedin K Receptor-Like (NK-4R) | NP_006670.1 | 1820 | RNLTSSPAPTASPPAPS | Homo sapiens |
| 1939 | 177147 | Neuromedin K Receptor-Like (NK-4R) | NP_006670.1 | 1821 | PSWTPSPRPGPAHPFLQPP | Homo sapiens |
| 1940 | 177147 | Neuromedin K Receptor-Like (NK-4R) | NP_006670.1 | 1822 | RSSHQKRGTRDVGSNVC | Homo sapiens |
| 1941 | 177147 | Neuromedin K Receptor-Like (NK-4R) | NP_006670.1 | 1823 | KSTSTTASFVSSSHMSVEE | Homo sapiens |
| 1942 | 177168 | Cysteinyl Leukotriene CYSLT1 Receptor | Q9Y271 | 1317 | TSSPFLIMAKPQKDEKNITKC | Homo sapiens |
| 1943 | 177168 | Cysteinyl Leukotriene CYSLT1 Receptor | Q9Y271 | 1318 | KKSMKKNLSSHKKAIG | Homo sapiens |
| 1944 | 177168 | Cysteinyl Leukotriene CYSLT1 Receptor | Q9Y271 | 1319 | QRTIHLHFLHNETKPC | Homo sapiens |
| 1945 | 177168 | Cysteinyl Leukotriene CYSLT1 Receptor | Q9Y271 | 1320 | RKHLSSVTVPKPKASLPE | Homo sapiens |
| 1946 | 177191 | Histamine H3 Receptor | Q9Y5N1 | 474 | RAVSYRAQQGDTRRAVRK | Homo sapiens |
| 1947 | 177191 | Histamine H3 Receptor | Q9Y5N1 | 475 | QRRTLRLDGAREAAAGPE | Homo sapiens |
| 1948 | 177191 | Histamine H3 Receptor | Q9Y5N1 | 476 | GSFTQRFRLSRDRKVA | Homo sapiens |
| 1949 | 177191 | Histamine H3 Receptor | Q9Y5N1 | 477 | RYGVGEAAVGAEAGEATLG | Homo sapiens |
| 1950 | 177191 | Histamine H3 Receptor | Q9Y5N1 | 1477 | SSRGTERPRSLKRGSKPSAS | Homo sapiens |
| 1951 | 177191 | Histamine H3 Receptor | Q9Y5N1 | 1479 | KPSASSASLEKRMKMVS | Homo sapiens |
| 1952 | 177387 | G Protein-Coupled Receptor ORF4 | NP_064540.1 | 2052 | RTLFSFYFRDTPRANR | Homo sapiens |
| 1953 | 177387 | G Protein-Coupled Receptor ORF4 | NP_064540.1 | 2053 | RPEMSRGLLAVRGAFV | Homo sapiens |
| 1954 | 177387 | G Protein-Coupled Receptor ORF4 | NP_064540.1 | 2059 | CAVLSHRRAGQPWALLV | Homo sapiens |
| 1955 | 177387 | G Protein-Coupled Receptor ORF4 | NP_064540.1 | 2733 | RVLVSDSLFVICALSL | Homo sapiens |

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| 1956 | 180956 | Lysophosphatidic Acid Receptor Edg7 | AAF00530.1 | 1014 | KRKTNVLSPTSGSIS | Homo sapiens |
| 1957 | 180956 | Lysophosphatidic Acid Receptor Edg7 | AAF00530.1 | 1015 | CFSQENPERRPSRIPST | Homo sapiens |
| 1958 | 180956 | Lysophosphatidic Acid Receptor Edg7 | AAF00530.1 | 1016 | SYKDEDMYGTMKKMIC | Homo sapiens |
| 1959 | 180956 | Lysophosphatidic Acid Receptor Edg7 | AAF00530.1 | 1017 | VERHMSIMRMVRHSN | Homo sapiens |
| 1960 | 189873 | G Protein-Coupled Receptor GPR78 | LR37 | 443 | CQRMDTVTKALALLAD | Homo sapiens |
| 1961 | 189873 | G Protein-Coupled Receptor GPR78 | LR37 | 528 | CSLRLPPEPRPRFAATAT | Homo sapiens |
| 1962 | 189873 | G Protein-Coupled Receptor GPR78 | LR37 | 533 | RGPLPPGICAHSAQGALRR | Homo sapiens |
| 1963 | 189873 | G Protein-Coupled Receptor GPR78 | LR37 | 534 | CRQAQARDLGAPWAVGLRSL | Homo sapiens |
| 1964 | 189874 | Neuromedin U Receptor 2 | LR28 | 420 | QQKLEDPFQKHLNSTEE | Homo sapiens |
| 1965 | 189874 | Neuromedin U Receptor 2 | LR28 | 422 | KDKSLEADEGNANIQRPC | Homo sapiens |
| 1966 | 189874 | Neuromedin U Receptor 2 | LR28 | 423 | SQHDPLPPAQRNIFLTC | Homo sapiens |
| 1967 | 189874 | Neuromedin U Receptor 2 | LR28 | 487 | ILHPRAKLQSTRRLR | Homo sapiens |
| 1968 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 415 | CKKRGTKQNLRNQIRSK | Homo sapiens |
| 1969 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 418 | EKPSPSSGKKGTEKAE | Homo sapiens |
| 1970 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 419 | PSVQDNDPIPWEHEDQETGE | Homo sapiens |
| 1971 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 486 | KKPPTVSESQETPAGNSEG | Homo sapiens |
| 1972 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 1832 | LVMSEEFREGKGVWK | Homo sapiens |
| 1973 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 1833 | GLPDKVPSPESPAIPEK | Homo sapiens |
| 1974 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 1834 | PDVEQFWHERDTPVSVQ | Homo sapiens |
| 1975 | 189884 | G Protein-Coupled Receptor Ls189884 | LR27 | 1835 | RHHEGVEMCLVDVPAVAEE | Homo sapiens |
| 1976 | 189895 | G Protein-Coupled Receptor GPR61 | AAK12637.1 | 1685 | RVPQTPGPSTASGVPE | Homo sapiens |
| 1977 | 189895 | G Protein-Coupled | AAK12637.1 | 1686 | ETPRQRSELSRSTMTVS | Homo sapiens |

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| 1978 | 189895 | Receptor GPR61 G Protein-Coupled Receptor GPR61 | AAK12637.1 | 1687 | SSGAPQITPHRTFGGK | Homo sapiens |
| 1979 | 189895 | G Protein-Coupled Receptor GPR61 | AAK12637.1 | 1688 | KPAPEEELRLPSREGSIEE | Homo sapiens |
| 1980 | 189895 | G Protein-Coupled Receptor GPR61 | AAK12637.1 | 1689 | CPSESWVSRPLPSPKQE | Homo sapiens |
| 1981 | 189900 | Spingolipid Receptor Edg8 | LR1 | 312 | TGKLRGARYQPGAGLRAD | Homo sapiens |
| 1982 | 189900 | Spingolipid Receptor Edg8 | LR1 | 316 | ALERSLTVMARRGPAPVSS | Homo sapiens |
| 1983 | 189900 | Spingolipid Receptor Edg8 | LR1 | 317 | DGSFSGSERSSPQRDGLD | Homo sapiens |
| 1984 | 189900 | Spingolipid Receptor Edg8 | LR1 | 318 | CGRDPGSGQQSASAAEASG | Homo sapiens |
| 1985 | 189901 | G Protein-Coupled Receptor Ls189901 | ENSP00000071589 | 2266 | ASRKAEAI GKLVQGEVS | Homo sapiens |
| 1986 | 189901 | (HEOAD54) G Protein-Coupled Receptor Ls189901 | ENSP00000071589 | 2270 | SCLSYRVGTKPSASLR | Homo sapiens |
| 1987 | 189901 | G Protein-Coupled Receptor Ls189901 | ENSP00000071589 | 2271 | RVDYLLHETWRFGAAAC | Homo sapiens |
| 1988 | 189901 | G Protein-Coupled Receptor Ls189901 | ENSP00000071589 | 2272 | HQSRALLGLTRGQGPVSD | Homo sapiens |
| 1989 | 189901 | G Protein-Coupled Receptor Ls189901 | ENSP00000071589 | 2273 | CIHTRPWTNTVFLVSL | Homo sapiens |
| 1990 | 189901 | G Protein-Coupled Receptor Ls189901 | ENSP00000071589 | 2274 | RGRQGPVDESSYQPSR | Homo sapiens |
| 1991 | 189904 | Purinergic Receptor P2U2 (GPR91) | AAK29080.1 | 2108 | IDRYLIKVPFREHLLQKKE | Homo sapiens |
| 1992 | 189904 | Purinergic Receptor P2U2 (GPR91) | AAK29080.1 | 2109 | TDNGTTCNDFASSGDPN | Homo sapiens |
| 1993 | 189904 | Purinergic Receptor P2U2 (GPR91) | AAK29080.1 | 2110 | FLKQRNRQVATALPLE | Homo sapiens |
| 1994 | 189904 | Purinergic Receptor P2U2 (GPR91) | AAK29080.1 | 2111 | RNVRIASRLGSKWKQYQC | Homo sapiens |
| 1995 | 189904 | Purinergic Receptor P2U2 (GPR91) | AAK29080.1 | 2112 | GDHFRDMLMNQLRHNFKS | Homo sapiens |

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| 1996 | 189920 | G Protein-Coupled Receptor GPR63 (PSP24 beta) | AAK12639.2 | 1721 | CVAFPLAVGNPDLQIPSR | Homo sapiens |
| 1997 | 189920 | G Protein-Coupled Receptor GPR63 (PSP24 beta) | AAK12639.2 | 1722 | NTRLRHNAURHSYPEGIC | Homo sapiens |
| 1998 | 189920 | G Protein-Coupled Receptor GPR63 (PSP24 beta) | AAK12639.2 | 1723 | QASKLGLVMSLQRPFGMSID | Homo sapiens |
| 1999 | 189920 | G Protein-Coupled Receptor GPR63 (PSP24 beta) | AAK12639.2 | 1724 | DMMPKSFKFLPQLPGHTKRR | Homo sapiens |
| 2000 | 189945 | G Protein-Coupled Receptor DJ287g14.2 | Q9Y3K0 | 1715 | QNLKDPVQIKIKHTRIQE | Homo sapiens |
| 2001 | 189945 | G Protein-Coupled Receptor DJ287g14.2 | Q9Y3K0 | 1716 | KNKSFSGWNTSGCVAHRD | Homo sapiens |
| 2002 | 189945 | G Protein-Coupled Receptor DJ287g14.2 | Q9Y3K0 | 1717 | RNNNEVYGKESYGKEKGDE | Homo sapiens |
| 2003 | 189945 | G Protein-Coupled Receptor DJ287g14.2 | Q9Y3K0 | 1718 | CGRNGKRSNRTLREEVLR | Homo sapiens |
| 2004 | 189945 | G Protein-Coupled Receptor DJ287g14.2 | Q9Y3K0 | 1719 | TSKSKSSSTTYFKRNSHTD | Homo sapiens |
| 2005 | 189945 | G Protein-Coupled Receptor DJ287g14.2 | Q9Y3K0 | 1720 | DKSLSKLAHADGDQTS | Homo sapiens |
| 2006 | 190026 | G Protein-Coupled Receptor JEG18 | LR24 | 407 | LFPLLRTSDDTPGNRTKC | Homo sapiens |
| 2007 | 190026 | G Protein-Coupled Receptor JEG18 | LR24 | 408 | QDKYPMAQDLGEKQKALK | Homo sapiens |
| 2008 | 190026 | G Protein-Coupled Receptor JEG18 | LR24 | 409 | SFPLDFLVKSNEIKSC | Homo sapiens |
| 2009 | 190026 | G Protein-Coupled Receptor JEG18 | LR24 | 410 | RRRLSRQDLHDSIQLHAK | Homo sapiens |
| 2010 | 190031 | G Protein-Coupled Receptor VLGR1 | AAD55586.1 | 1725 | KGEAKLSDRAKDVTLTQIE | Homo sapiens |
| 2011 | 190031 | G Protein-Coupled Receptor VLGR1 | AAD55586.1 | 1727 | DHKEQPIVTENAERQLVVKD | Homo sapiens |
| 2012 | 190031 | G Protein-Coupled Receptor VLGR1 | AAD55586.1 | 1728 | EDFEEQTLTFLDGERERK | Homo sapiens |
| 2013 | 190031 | G Protein-Coupled Receptor VLGR1 | AAD55586.1 | 1729 | EGKEGDYIRIPERLLDVQD | Homo sapiens |

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| 2014 | 190168 | Receptor VLGR1 | AAF27278.1 | 324 | SEAYADGIEGYDILVACSSS | Homo sapiens |
| 2015 | 190168 | G Protein-Coupled Receptor GPR58 | AAF27278.1 | 326 | NNLRNQNQNVKKDKAAK | Homo sapiens |
| 2016 | 190168 | G Protein-Coupled Receptor GPR58 | AAF27278.1 | 379 | DPFLNFSTPVVLFDAIT | Homo sapiens |
| 2017 | 190168 | G Protein-Coupled Receptor GPR58 | AAF27278.1 | 380 | GKIFSSCFHNTILCMQKE | Homo sapiens |
| 2018 | 190170 | G Protein-Coupled Receptor GPR57 | AAF27279.1 | 327 | CPKFVNKILSSHQPLFS | Homo sapiens |
| 2019 | 190170 | G Protein-Coupled Receptor GPR57 | AAF27279.1 | 328 | KQHARVISHVPENTKGAVKK | Homo sapiens |
| 2020 | 190170 | G Protein-Coupled Receptor GPR57 | AAF27279.1 | 329 | ENTKGAVKKHLSKKDKRA | Homo sapiens |
| 2021 | 190170 | G Protein-Coupled Receptor GPR57 | AAF27279.1 | 330 | CKFHTSFDMMMLRTSI | Homo sapiens |
| 2022 | 190188 | G Protein-Coupled Receptor LGR6 | LR36 | 439 | ENHDQDDELQLEMEDSKP | Homo sapiens |
| 2023 | 190188 | G Protein-Coupled Receptor LGR6 | LR36 | 440 | NPHFRDDLRLRPARGDS | Homo sapiens |
| 2024 | 190188 | G Protein-Coupled Receptor LGR6 | LR36 | 442 | EDLHLDDEESSKRPLGLLAR | Homo sapiens |
| 2025 | 190188 | G Protein-Coupled Receptor LGR6 | LR36 | 621 | DSGPLAYAAAGELEKSSC | Homo sapiens |
| 2026 | 190414 | G Protein-coupled Receptor GPR101 | CAC33098.1 | 1836 | CAARRQHALLYNVKRHSLE | Homo sapiens |
| 2027 | 190414 | G Protein-coupled Receptor GPR101 | CAC33098.1 | 1837 | DGSLKAKEGSTGTSSESV | Homo sapiens |
| 2028 | 190414 | G Protein-coupled Receptor GPR101 | CAC33098.1 | 1838 | CSIDLGEDGMEFGEDDIN | Homo sapiens |
| 2029 | 190414 | G Protein-coupled Receptor GPR101 | CAC33098.1 | 1839 | SEDDVEAVNIPESLPSS | Homo sapiens |
| 2030 | 190414 | G Protein-coupled Receptor GPR101 | CAC33098.1 | 1840 | MHKTIKKEIQDMLKKFFC | Homo sapiens |
| 2031 | 190414 | G Protein-coupled Receptor GPR101 | CAC33098.1 | 1841 | KEDSHPDLPGTGGTEG | Homo sapiens |
| 2032 | 190418 | Inflammation-Related G Protein-Coupled Receptor | LR8 | 343 | RQVKRAAGALDQYKLRQAS | Homo sapiens |

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| 2033 | 190418 | EX33 Inflammation-Related G Protein-Coupled Receptor | LR8 | 344 | RTDEAMPGRFQELDSRLASG | Homo sapiens |
| 2034 | 190418 | EX33 Inflammation-Related G Protein-Coupled Receptor | LR8 | 345 | DSSEVGDDQINSKRAKQMAEK | Homo sapiens |
| 2035 | 190418 | EX33 Inflammation-Related G Protein-Coupled Receptor | LR8 | 346 | KAQPIKGARRAPDSSEFGK | Homo sapiens |
| 2036 | 190419 | G Protein-Coupled Receptor Ls190419 | CAC33085.1 | 2716 | RRKSNFRLRGYSTGKT | Homo sapiens |
| 2037 | 190419 | G Protein-Coupled Receptor Ls190419 | CAC33085.1 | 2717 | RRQKSSYNYLLALAAAD | Homo sapiens |
| 2038 | 190419 | G Protein-Coupled Receptor Ls190419 | CAC33085.1 | 2719 | CFLTSPYYWWPNJWT | Homo sapiens |
| 2039 | 190419 | G Protein-Coupled Receptor Ls190419 | CAC33085.1 | 2725 | CSIFFILNSIIVYKLR | Homo sapiens |
| 2040 | 190421 | MrgX1 G Protein-Coupled Receptor | AAK91804.1 | 2754 | GRUYLLSFISIPH | Homo sapiens |
| 2041 | 190421 | MrgX1 G Protein-Coupled Receptor | AAK91804.1 | 2755 | FFFLWVHVDRE | Homo sapiens |
| 2042 | 190421 | MrgX1 G Protein-Coupled Receptor | AAK91804.1 | 2756 | MDPTISTLDTELTP | Homo sapiens |
| 2043 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | LR49 | 471 | ASSIMLLDSGSEQNGSVTSC | Homo sapiens |
| 2044 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | LR49 | 472 | RVLLKVEVPESGLRVSHRK | Homo sapiens |
| 2045 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | LR49 | 473 | KDRUKSALRKGHQPQAKATKC | Homo sapiens |
| 2046 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | LR49 | 512 | MEPNGTFSNNNSRNC | Homo sapiens |
| 2047 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | NP_065110.1 | 2253 | CTIENFKREFFPVYLJIF | Homo sapiens |
| 2048 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | NP_065110.1 | 2254 | GVLGNGLSIVFLQPYK | Homo sapiens |
| 2049 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | NP_065110.1 | 2255 | ADYYLRGSNWIFGDLAC | Homo sapiens |
| 2050 | 190427 | Cysteinyl Leukotriene C _{YSLT2} Receptor | NP_065110.1 | 2256 | FRLHVTIRS AWILC | Homo sapiens |

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| 2051 | 190427 | Receptor Cysteinyl Leukotriene CysLT2 | NP_065110.1 | 2257 | CGIILIMASSIMILDSGS | Homo sapiens |
| 2052 | 190427 | Receptor Cysteinyl Leukotriene CysLT2 | NP_065110.1 | 2258 | CLELNLYKIAKLQTMNYIAL | Homo sapiens |
| 2053 | 190427 | Receptor Cysteinyl Leukotriene CysLT2 | NP_065110.1 | 2260 | VSHRKALTIITLIJFLC | Homo sapiens |
| 2054 | 190427 | Receptor Cysteinyl Leukotriene CysLT2 | NP_065110.1 | 2261 | CFLPYHTLRTVHLTTWKVGL | Homo sapiens |
| 2055 | 190427 | Receptor Cysteinyl Leukotriene CysLT2 | NP_065110.1 | 2262 | CKDRLHKALVITLALA | Homo sapiens |
| 2056 | 190427 | Receptor Cysteinyl Leukotriene CysLT2 | NP_065110.1 | 2263 | YFAGENFKDRKLSALRKG | Homo sapiens |
| 2057 | 190427 | Receptor Cysteinyl Leukotriene CysLT2 | NP_065110.1 | 2264 | HPQKAKTKCVFPVSVWLRIKE | Homo sapiens |
| 2058 | 190437 | Receptor G Protein-Coupled Receptor C5L2 | LR31 | 429 | DSVSYEYGDYSDLSDRPVDC | Homo sapiens |
| 2059 | 190437 | Receptor G Protein-Coupled Receptor C5L2 | LR31 | 430 | RESQGGQDESVDKKSTSHD | Homo sapiens |
| 2060 | 190437 | Receptor G Protein-Coupled Receptor C5L2 | LR31 | 431 | PSAIYRRLHQEHFPARLQC | Homo sapiens |
| 2061 | 190437 | Receptor G Protein-Coupled Receptor C5L2 | LR31 | 432 | CHWALRESQGGQDESVDSSKS | Homo sapiens |
| 2062 | 190437 | Receptor G Protein-Coupled Receptor C5L2 | NP_060955.1 | 2818 | MGNDSVSYEYGDYSDLSDRPVDC | Homo sapiens |
| 2063 | 190438 | Receptor G Protein-Coupled Receptor Ls190438 | ENSP00000080322 | 2585 | TERLKIRWHTSDNQVRPQAC | Homo sapiens |
| 2064 | 190484 | Receptor G Protein-Coupled Receptor Ls190484 | LR33 | 434 | EADLGATGHRPRTLEDDED | Homo sapiens |
| 2065 | 190484 | Receptor G Protein-Coupled Receptor Ls190484 | LR33 | 435 | RTCHRQGGQPAACRGFARVAR | Homo sapiens |
| 2066 | 190484 | Receptor G Protein-Coupled Receptor Ls190484 | LR33 | 436 | EERPGSFTPEPQTQLDSEG | Homo sapiens |
| 2067 | 190484 | Receptor G Protein-Coupled Receptor Ls190484 | LR33 | 437 | RSDPTAQPLNPTAQPSQSD | Homo sapiens |
| 2068 | 190595 | Receptor G Protein-Coupled Receptor SH120 | NP_057418.1 | 1730 | RNVTDTDILALERRLLQ | Homo sapiens |
| 2069 | 190595 | Receptor G Protein-Coupled Receptor SH120 | NP_057418.1 | 1731 | KKKRMAMARITMFQKGE | Homo sapiens |

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| 2070 | 190595 | G Protein-Coupled Receptor SH120 | NP_057418.1 | 1732 | KSVTTSASGSENLTUQQE | Homo sapiens |
| 2071 | 190595 | G Protein-Coupled Receptor SH120 | NP_057418.1 | 1733 | EVDAALEELSRQLFLETAD | Homo sapiens |
| 2072 | 190595 | G Protein-Coupled Receptor SH120 | NP_057418.1 | 1734 | DRVGKTDVPVTRGIEIT | Homo sapiens |
| 2073 | 190599 | G Protein-Coupled Receptor GPRC5B | O75205 | 411 | VRLPFIKEKEKKSPVGLH | Homo sapiens |
| 2074 | 190599 | G Protein-Coupled Receptor GPRC5B | O75205 | 412 | DEHNAALRTAGFPNGSLGKR | Homo sapiens |
| 2075 | 190599 | G Protein-Coupled Receptor GPRC5B | O75205 | 413 | GKRPSGSLGKRPSAPFRSNV | Homo sapiens |
| 2076 | 190599 | G Protein-Coupled Receptor GPRC5B | O75205 | 414 | SQPRMIRETAFEEDVQLPR | Homo sapiens |
| 2077 | 190602 | G Protein-Coupled Receptor GPCR150 | CAB55314.1 | 542 | GDPAIYQSLKAQNAYSRHC | Homo sapiens |
| 2078 | 190602 | G Protein-Coupled Receptor GPCR150 | CAB55314.1 | 543 | PFSSHSSYTVRSKKIFLSKL | Homo sapiens |
| 2079 | 190602 | G Protein-Coupled Receptor GPCR150 | CAB55314.1 | 619 | GKILLNLTILGMRKNTCQN | Homo sapiens |
| 2080 | 190602 | G Protein-Coupled Receptor GPCR150 | CAB55314.1 | 620 | EEVTILVQAIRITSYME | Homo sapiens |
| 2081 | 190623 | Melanopsin | AAF24978.1 | 2137 | CKNGESLWQRQLQSE | Homo sapiens |
| 2082 | 190623 | Melanopsin | AAF24978.1 | 2138 | RHSRPYPSPYRSTHRST | Homo sapiens |
| 2083 | 190623 | Melanopsin | AAF24978.1 | 2139 | TSHTSNLSWISIRRRQE | Homo sapiens |
| 2084 | 190623 | Melanopsin | AAF24978.1 | 2140 | DLEAKAPRPQGHEAET | Homo sapiens |
| 2085 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | 1735 | KLQRRPVAVDVLLNLITASD | Homo sapiens |
| 2086 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | 1736 | KTRPRLGQAGLVSVAC | Homo sapiens |
| 2087 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | 1737 | EFSGDISHSQGTNGTC | Homo sapiens |
| 2088 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | 1738 | SRLVWILGRGGSHRRQRR | Homo sapiens |
| 2089 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | 1739 | GGWQGESELMELKEQKGG | Homo sapiens |
| 2090 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | 1740 | EEQRADRPAAERKTSEHSQGC | Homo sapiens |
| 2091 | 190627 | G Protein-Coupled Receptor GPR41 & GPR42 | NP_005295.1 | 2569 | MDTGPDSYFSGNHWFFSV | Homo sapiens |

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| 2092 | 190701 | Receptor GPR41 & GPR42 C-C Chemokine Receptor 11 | AAF61299.1 | 1441 | VAIYAVYKQRTKTDV | Homo sapiens |
| 2093 | 190701 | C-C Chemokine Receptor 11 | AAF61299.1 | 1442 | VAVTKVPSQSGVGKPCWII | Homo sapiens |
| 2094 | 190701 | C-C Chemokine Receptor 11 | AAF61299.1 | 1443 | CNMSKRMDIAIQVTESI | Homo sapiens |
| 2095 | 190701 | C-C Chemokine Receptor 11 | AAF61299.1 | 1444 | RQSVVEFFPDSEGPTPE | Homo sapiens |
| 2096 | 190705 | G Protein-Coupled Receptor SALPR | NP_057652.1 | 1741 | GHPPGSGGAESADTEARVR | Homo sapiens |
| 2097 | 190705 | G Protein-Coupled Receptor SALPR | NP_057652.1 | 1742 | HSVASALKSHRTRGHGRGDC | Homo sapiens |
| 2098 | 190705 | G Protein-Coupled Receptor SALPR | NP_057652.1 | 1743 | KGGA AVAGGRPTGASARR | Homo sapiens |
| 2099 | 190705 | G Protein-Coupled Receptor SALPR | NP_057652.1 | 1744 | CLVRREFRKALKSILLWR | Homo sapiens |
| 2100 | 190705 | G Protein-Coupled Receptor SALPR | NP_057652.1 | 1745 | RPFTATTKPEHEDQGLQ | Homo sapiens |
| 2101 | 190711 | G Protein-Coupled Receptor GPR85 (SREB2) | CAB82307.1 | 339 | AFPPVILDVGTYSFIREEDQC | Homo sapiens |
| 2102 | 190711 | G Protein-Coupled Receptor GPR85 (SREB2) | CAB82307.1 | 340 | HDRRKMKPVGFVA VSN | Homo sapiens |
| 2103 | 190711 | G Protein-Coupled Receptor GPR85 (SREB2) | CAB82307.1 | 341 | RRRLVLDEFKMEKRISR | Homo sapiens |
| 2104 | 190711 | G Protein-Coupled Receptor GPR85 (SREB2) | CAB82307.1 | 342 | LRRCFSTLLYCRKSLPRE | Homo sapiens |
| 2105 | 190725 | G Protein-Coupled Receptor GPR26 | LR26 | 554 | PLTLAGVVARQPAGDRLC | Homo sapiens |
| 2106 | 190725 | G Protein-Coupled Receptor GPR26 | LR26 | 555 | CSRRPDERLRFVFTGA | Homo sapiens |
| 2107 | 190725 | G Protein-Coupled Receptor GPR26 | LR26 | 557 | CKEILNRLHLHRSIHSSG | Homo sapiens |
| 2108 | 190725 | G Protein-Coupled Receptor GPR26 | LR26 | 567 | CLEEQRRRRQRATKKIST | Homo sapiens |
| 2109 | 190741 | Sreb3 | LR9 | 516 | EPEEVSGALSPPSASAYVK | Homo sapiens |
| 2110 | 190741 | Sreb3 | LR9 | 519 | NGHAASRRLLGMDEVKGEK | Homo sapiens |
| 2111 | 190741 | Sreb3 | LR9 | 526 | KKCLRTHAPCWGTGGAPAPR | Homo sapiens |
| 2112 | 190741 | Sreb3 | LR9 | 527 | VLMAATHAVYGKLLLFYR | Homo sapiens |

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| 2113 | 190742 | G Protein-Coupled Receptor H7BA62 | LR23 | 550 | RRAPGPPSDTFVFNLALAD | Homo sapiens |
| 2114 | 190742 | G Protein-Coupled Receptor H7BA62 | LR23 | 551 | QRRQRRRQDSRVVARSVR | Homo sapiens |
| 2115 | 190742 | G Protein-Coupled Receptor H7BA62 | LR23 | 552 | RREPRQALAGTFRDLRSR | Homo sapiens |
| 2116 | 190742 | G Protein-Coupled Receptor H7BA62 | LR23 | 553 | KQVGRRWVASNPRESRPS | Homo sapiens |
| 2117 | 190743 | G Protein-Coupled Receptor GPRC5D | LR32 | 568 | KDCIESTGDYFLLCDAEGP | Homo sapiens |
| 2118 | 190743 | G Protein-Coupled Receptor GPRC5D | LR32 | 569 | VENQELSRGTFLGDSGSR | Homo sapiens |
| 2119 | 190743 | G Protein-Coupled Receptor GPRC5D | LR32 | 570 | GDSGSRVILLQEKQKHA | Homo sapiens |
| 2120 | 190743 | G Protein-Coupled Receptor GPRC5D | LR32 | 571 | SMILRGNPQFQRQPWDDP | Homo sapiens |
| 2121 | 190744 | G Protein-Coupled Receptor GPRC5C | LR34 | 529 | KVPSEELTSSSHGPPPTAR | Homo sapiens |
| 2122 | 190744 | G Protein-Coupled Receptor GPRC5C | LR34 | 532 | RSGGEGGPQGNSSAGWAV | Homo sapiens |
| 2123 | 190744 | G Protein-Coupled Receptor GPRC5C | LR34 | 535 | QDTKRSLGLGTQVFLG | Homo sapiens |
| 2124 | 190744 | G Protein-Coupled Receptor GPRC5C | LR34 | 538 | KEQKGQSMFVENKAFSMDE | Homo sapiens |
| 2125 | 190745 | G Protein-Coupled Receptor LGR7 | LR40 | 560 | TATEIRNQVKKEMILAKR | Homo sapiens |
| 2126 | 190745 | G Protein-Coupled Receptor LGR7 | LR40 | 561 | NYRQRKSMDSKGQKTYAPS | Homo sapiens |
| 2127 | 190745 | G Protein-Coupled Receptor LGR7 | LR40 | 565 | SCSNLTLVIMRKNKINHLN | Homo sapiens |
| 2128 | 190745 | G Protein-Coupled Receptor LGR7 | LR40 | 566 | DELDLGSNKIENLPPLFKD | Homo sapiens |
| 2129 | 190748 | GPCR Ls190748 | LR47 | 546 | QLSSPSRPTQKTLCSLR | Homo sapiens |
| 2130 | 190748 | GPCR Ls190748 | LR47 | 547 | DMLKIASMIHSQIRKMEHAG | Homo sapiens |
| 2131 | 190748 | GPCR Ls190748 | LR47 | 548 | AGGYRSPRTPSDFKALRTVS | Homo sapiens |
| 2132 | 190748 | GPCR Ls190748 | LR47 | 549 | RESSCHVTISSSEFDG | Homo sapiens |
| 2133 | 190748 | GPCR Ls190748 | LR47 | 1481 | GVKKVLTSLFLFLSARNC | Homo sapiens |
| 2134 | 190748 | GPCR Ls190748 | LR47 | 1482 | NSLNPLIYAYWQKEVRLQ | Homo sapiens |
| 2135 | 190749 | G Protein-Coupled | LR48 | 467 | RRAALRPPRPARGSRRLPSD | Homo sapiens |

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| 2136 | 190749 | Receptor GPR62 | LR48 | 468 | RPVRLALGRLRRALPGPVR | Homo sapiens |
| 2137 | 190749 | G Protein-Coupled Receptor GPR62 | LR48 | 510 | DSRLSILPPLRPLPGGK | Homo sapiens |
| 2138 | 190749 | Receptor GPR62 | LR48 | 511 | RPPEGPAVGPSEAPEQTPE | Homo sapiens |
| 2139 | 190749 | G Protein-Coupled Receptor GPR62 | LR48 | 2702 | VVARRAALRPPRPA | Homo sapiens |
| 2140 | 190749 | Receptor GPR62 | LR48 | 2703 | PSEAPEQTPELAGGR | Homo sapiens |
| 2141 | 190749 | G Protein-Coupled Receptor GPR62 | LR48 | 2704 | GPSEAPEQTPELAG | Homo sapiens |
| 2142 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2235 | PDNTNINLSLSTRVTLAFF | Homo sapiens |
| 2143 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2237 | VVDKNLRHRSSYFFLN | Homo sapiens |
| 2144 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2240 | LYIPHTLFEWDFGKEIC | Homo sapiens |
| 2145 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2242 | TQHTGVLKIVTLMVAV | Homo sapiens |
| 2146 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2243 | VNGPMILVSESWKDEGSEC | Homo sapiens |
| 2147 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2244 | CEPGFFSEWYLAITSFL | Homo sapiens |
| 2148 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2245 | AYFNMINVWSLWKRDLHSLRC | Homo sapiens |
| 2149 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2246 | CGHSFRGRLSRRSL | Homo sapiens |
| 2150 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2247 | IASKMGFSQSDSVALHQRE | Homo sapiens |
| 2151 | 190774 | Histamine H4 Receptor | NP_067637.2 | 2249 | IVLSFYSSATGPKSVWYRIA | Homo sapiens |
| 2152 | 190823 | Formyl Peptide Receptor 1 (FPR1) | NP_002020.1 | 2085 | IIRVTVPGKTGTAC | Homo sapiens |
| 2153 | 190823 | Formyl Peptide Receptor 1 (FPR1) | NP_002020.1 | 2086 | SPWTNDPKERINVAVA | Homo sapiens |
| 2154 | 190823 | Formyl Peptide Receptor 1 (FPR1) | NP_002020.1 | 2087 | RIRELLQGMKEIGIAVD | Homo sapiens |
| 2155 | 190823 | Formyl Peptide Receptor 1 (FPR1) | NP_002020.1 | 2088 | TQISDTATNSTLPSAE | Homo sapiens |
| 2156 | 190824 | Formyl Peptide Receptor-like 2 (FPR2) | LR14 | 481 | TEVPDSAGTSNTHITSAS | Homo sapiens |
| 2157 | 190824 | Formyl Peptide Receptor-like 2 (FPR2) | LR14 | 522 | GDTAVERLNVFITMAKV | Homo sapiens |
| 2158 | 190824 | Formyl Peptide Receptor-like 2 (FPR2) | LR14 | 523 | MSLAKRVMTGLWIFTI | Homo sapiens |
| 2159 | 190824 | Formyl Peptide Receptor-like 2 (FPR2) | LR14 | 525 | LHFIIGFTVPMISITV | Homo sapiens |

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| 2160 | 190948 | like 2 (FPL2) | NP_038475.1 | 1658 | DELLEAPGDLETLRLQQHC | Homo sapiens |
| 2161 | 190948 | EMR2 Hormone Receptor | NP_038475.1 | 1659 | CVASHLLDGLIEDVLRGLSKN | Homo sapiens |
| 2162 | 190948 | EMR2 Hormone Receptor | NP_038475.1 | 1660 | KSGDPGPSVGLVSIPIG | Homo sapiens |
| 2163 | 190948 | EMR2 Hormone Receptor | NP_038475.1 | 1661 | SKGIRKLKTESEMHLSST | Homo sapiens |
| 2164 | 190948 | EMR2 Hormone Receptor | NP_038475.1 | 1662 | ELSLEVQKQVDRSVTLRGNQ | Homo sapiens |
| 2165 | 190948 | EMR2 Hormone Receptor | NP_038475.1 | 1663 | EPEKGMILLHETHQGILLQDGS | Homo sapiens |
| 2166 | 190955 | Leukotriene B4 Receptor | NP_000743.1 | 1492 | KRMQKRSVTALMVLNLALAD | Homo sapiens |
| 2167 | 190955 | Leukotriene B4 Receptor | NP_000743.1 | 1493 | RPFVSQKLRTKAMARR | Homo sapiens |
| 2168 | 190955 | Leukotriene B4 Receptor | NP_000743.1 | 1494 | ASYSDIGRRRLQARRFR | Homo sapiens |
| 2169 | 190955 | Leukotriene B4 Receptor | NP_000743.1 | 1495 | LEGTGSEASSTRRGGS | Homo sapiens |
| 2170 | 191039 | Trace Amine Receptor 1 | LR122 | 2039 | RKALKMIMLFQKIFQKDSRC | Homo sapiens |
| 2171 | 191039 | Trace Amine Receptor 1 | LR122 | 2040 | QIGLEMKNGISQSKERKAV | Homo sapiens |
| 2172 | 191039 | Trace Amine Receptor 1 | LR122 | 2041 | RIYLAKEQARLISDANQK | Homo sapiens |
| 2173 | 191039 | Trace Amine Receptor 1 | LR122 | 2042 | ELNFKGAEIYVKHVHC | Homo sapiens |
| 2174 | 191039 | Trace Amine Receptor 1 | LR122 | 2043 | CVKNNWSNDVRSALYS | Homo sapiens |
| 2175 | 191132 | G Protein-Coupled Receptor 88 (GPR88) | NP_071332.1 | 1569 | SAEPPADWDGAGGSYRLRG | Homo sapiens |
| 2176 | 191132 | G Protein-Coupled Receptor 88 (GPR88) | NP_071332.1 | 1571 | GIVRRVRVSVKRVSVLN | Homo sapiens |
| 2177 | 191132 | G Protein-Coupled Receptor 88 (GPR88) | NP_071332.1 | 1572 | RNEEFRRSVSVLPGVGDA | Homo sapiens |
| 2178 | 191132 | G Protein-Coupled Receptor 88 (GPR88) | NP_071332.1 | 1573 | CEEEESWAGRRIPVSLYS | Homo sapiens |
| 2179 | 191132 | G Protein-Coupled Receptor 88 (GPR88) | NP_071332.1 | 1651 | CYLGIVRRVRVSVKRVSV | Homo sapiens |
| 2180 | 191168 | P2Y12 Platelet ADP Receptor | NP_073625.1 | 1544 | KELYRSYVTRIGVGKVPR | Homo sapiens |
| 2181 | 191168 | P2Y12 Platelet ADP Receptor | NP_073625.1 | 1545 | ILTNRQPRDKNVKKCS | Homo sapiens |

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| 2182 | 191168 | P2Y12 Platelet ADP Receptor | NP_073625.1 | 1546 | CPNSATLSQDNRKKEQDGG | Homo sapiens |
| 2183 | 191168 | P2Y12 Platelet ADP Receptor | NP_073625.1 | 1570 | TTRPFKTSNPKNLLGAK | Homo sapiens |
| 2184 | 191193 | Trace Amine Receptor 3 (TA3) | LR88 | 1969 | ANEEGIEELVVA | Homo sapiens |
| 2185 | 191193 | Trace Amine Receptor 3 (TA3) | LR88 | 2316 | RKIESTASQAQSS | Homo sapiens |
| 2186 | 191193 | Trace Amine Receptor 3 (TA3) | LR88 | 2571 | LVDAVIDAYMFI | Homo sapiens |
| 2187 | 191193 | Trace Amine Receptor 3 (TA3) | LR88 | 2573 | RTDSSTTNLFSEEVET | Homo sapiens |
| 2188 | 191196 | G Protein-Coupled Receptor GPR80 | IP_13092 | 1864 | NASDFPDYAAAFGNCTDE | Homo sapiens |
| 2189 | 191196 | G Protein-Coupled Receptor GPR80 | IP_13092 | 1865 | TFUTSTNRTNRSACLD | Homo sapiens |
| 2190 | 191196 | G Protein-Coupled Receptor GPR80 | IP_13092 | 1866 | TLTHGLQTDSCCLKQKARR | Homo sapiens |
| 2191 | 191196 | G Protein-Coupled Receptor GPR80 | IP_13092 | 1867 | RLLSISCSIENQIHEA | Homo sapiens |
| 2192 | 191196 | G Protein-Coupled Receptor GPR80 | IP_13092 | 1868 | QQAVCSTVRCKVSGNLE | Homo sapiens |
| 2193 | 191218 | MrgX2 G Protein-Coupled Receptor | AAK91805.1 | 2749 | QDIAEVDHSEGCF | Homo sapiens |
| 2194 | 191218 | MrgX2 G Protein-Coupled Receptor | AAK91805.1 | 2750 | RKQWRRLQQPIKLIA | Homo sapiens |
| 2195 | 191218 | MrgX2 G Protein-Coupled Receptor | AAK91805.1 | 2751 | CSISINFPSFFTVMTC | Homo sapiens |
| 2196 | 191218 | MrgX2 G Protein-Coupled Receptor | AAK91805.1 | 2752 | QWFLILWIWKDSDV | Homo sapiens |
| 2197 | 191222 | G Protein-Coupled Receptor Ls191222 | ENSP00000199719 | 2575 | AFLSDNTIEVRINRTLKK | Homo sapiens |
| 2198 | 191222 | G Protein-Coupled Receptor Ls191222 | ENSP00000199719 | 2576 | QETKNEFRNLKGIQSKC | Homo sapiens |
| 2199 | 191222 | G Protein-Coupled Receptor Ls191222 | ENSP00000199719 | 2577 | CNNKTHWAPVRSTM | Homo sapiens |
| 2200 | 191222 | G Protein-Coupled Receptor Ls191222 | ENSP00000199719 | 2581 | TKMAEYDLQNDVFIIPD | Homo sapiens |
| 2201 | 193511 | EGF-Like Module-Containing | AAK15076.1 | 1665 | CQDITSSKTEGRKELQKIV | Homo sapiens |

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| 2202 | 193511 | Mucin-Like Receptor EMR3 | AAK15076.1 | 1666 | RDVESKVLLETALKDPEQK | Homo sapiens |
| 2203 | 193511 | EGF-Like Module-Containing Mucin-Like Receptor EMR3 | AAK15076.1 | 1667 | KIQNDSVAIETQAITDNC | Homo sapiens |
| 2204 | 193511 | EGF-Like Module-Containing Mucin-Like Receptor EMR3 | AAK15076.1 | 1668 | CSEERKTFNLNVQMNMSMDIR | Homo sapiens |
| 2205 | 193511 | EGF-Like Module-Containing Mucin-Like Receptor EMR3 | AAK15076.1 | 1669 | EEMDKKDDQVYLNSQVVSAA | Homo sapiens |
| 2206 | 193511 | EGF-Like Module-Containing Mucin-Like Receptor EMR3 | AAK15076.1 | 1670 | SKSVTLTFQHV/KMTPSTK | Homo sapiens |
| 2207 | 193516 | G Protein-Coupled Receptor dJ402H5.1 | CAC21687.1 | 2142 | CLLLPTAVIVFSVVKIIAK | Homo sapiens |
| 2208 | 193516 | G Protein-Coupled Receptor dJ402H5.1 | CAC21687.1 | 2144 | RPDSIPIQLSVVPTLLA | Homo sapiens |
| 2209 | 193516 | G Protein-Coupled Receptor dJ402H5.1 | CAC21687.1 | 2145 | CQTGGLKATKKKSLEG | Homo sapiens |
| 2210 | 193516 | G Protein-Coupled Receptor dJ402H5.1 | CAC21687.1 | 2146 | RLHTVTIVRKSSAVLE | Homo sapiens |
| 2211 | 193516 | G Protein-Coupled Receptor dJ402H5.1 | CAC21687.1 | 2620 | PTAVIVFSVVKIIAKV | Homo sapiens |
| 2212 | 193524 | Receptor dJ402H5.1 Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | 1947 | KLAQLRLEVVGHTDHYFSQD | Homo sapiens |
| 2213 | 193524 | Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | 1948 | CALQTWGSERRRLGLDTSKD | Homo sapiens |
| 2214 | 193524 | Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | 2734 | RGRRQSARNSRGPPEQPNE | Homo sapiens |
| 2215 | 193524 | Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | 2735 | RNSRGPPEQPNEELG | Homo sapiens |
| 2216 | 193524 | Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | 2736 | AGVREDVRPHTVVLRL | Homo sapiens |
| 2217 | 193524 | Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | 2742 | QLDQVPSRHPSPRE | Homo sapiens |

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| 2218 | 193524 | Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3) | NP_001398.1 | 2744 | LDLSRSSNSREQLDQV | Homo sapiens |
| 2219 | 193914 | Neuropeptide FF 1 Receptor | NP_071429.1 | 1903 | REEHFVMDARNRSPLYSC | Homo sapiens |
| 2220 | 193914 | Neuropeptide FF 1 Receptor | NP_071429.1 | 1904 | PGPAPGEGEAAADPRASRR | Homo sapiens |
| 2221 | 193914 | Neuropeptide FF 1 Receptor | NP_071429.1 | 1905 | CPRPSGSHKEAYSERPGGILL | Homo sapiens |
| 2222 | 193914 | Neuropeptide FF 1 Receptor | NP_071429.1 | 1906 | PSSGAPRPGRPLRNGRVA | Homo sapiens |
| 2223 | 194319 | G Protein-Coupled Receptor FLJ22684 | NP_079324.1 | 2018 | FLGKNDIDIKTKKELIVN | Homo sapiens |
| 2224 | 194319 | G Protein-Coupled Receptor FLJ22684 | NP_079324.1 | 2019 | QVTYRDSKEKRDLRNFLK | Homo sapiens |
| 2225 | 194319 | G Protein-Coupled Receptor FLJ22684 | NP_079324.1 | 2020 | CERTKIWGTFKINERFTND | Homo sapiens |
| 2226 | 194319 | G Protein-Coupled Receptor FLJ22684 | NP_079324.1 | 2021 | SKYANGIEIQLKKAYER | Homo sapiens |
| 2227 | 194431 | Olfactory Receptor, Family 51, Subfamily E, Member 2 | NP_110401.1 | 2022 | CIVVFIVRTERSLHAP | Homo sapiens |
| 2228 | 194431 | Olfactory Receptor, Family 51, Subfamily E, Member 2 | NP_110401.1 | 2023 | KILALFWFDSREISFEAC | Homo sapiens |
| 2229 | 194431 | Olfactory Receptor, Family 51, Subfamily E, Member 2 | NP_110401.1 | 2024 | CVHQDVMKLAYADTLP | Homo sapiens |
| 2230 | 194431 | Olfactory Receptor, Family 51, Subfamily E, Member 2 | NP_110401.1 | 2027 | RFGNSLHPIVRVVMGD | Homo sapiens |
| 2231 | 194431 | Olfactory Receptor, Family 51, Subfamily E, Member 2 | NP_110401.1 | 2028 | KTKQIRTRVLAMFKISC | Homo sapiens |
| 2232 | 194743 | FLJ14454 | LR77 | 1855 | KTDENEQDQSASVDMVFSP | Homo sapiens |
| 2233 | 194743 | FLJ14454 | LR77 | 1856 | KKDYQYPKSLDILSNVGC | Homo sapiens |
| 2234 | 194743 | FLJ14454 | LR77 | 1857 | KNLQTSDDGDNINIDFNN | Homo sapiens |
| 2235 | 194743 | FLJ14454 | LR77 | 1858 | SQNGNPNQWELDYRQEKIC | Homo sapiens |
| 2236 | 194743 | FLJ14454 | LR77 | 1859 | RPRLRVKMYNFLRSLPTLHE | Homo sapiens |
| 2237 | 194745 | G Protein-Coupled Receptor SLT/MCH2 | AAK32193.1 | 1845 | CNPSVPKQVRVMKLTQM | Homo sapiens |
| 2238 | 194745 | G Protein-Coupled Receptor SLT/MCH2 | AAK32193.1 | 1846 | RLTRWRTRYKTIRINLG | Homo sapiens |
| 2239 | 194745 | G Protein-Coupled Receptor SLT/MCH2 | AAK32193.1 | 1847 | KDGVESCAFDLISPDDVL | Homo sapiens |
| 2240 | 194745 | G Protein-Coupled Receptor SLT/MCH2 | AAK32193.1 | 1848 | LSGNFQKRLPQIGRRATE | Homo sapiens |

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| 2241 | 194745 | G Protein-Coupled Receptor SLT/MCH2 | AAK32193.1 | 1849 | TIIRSRKKTVPDIYC | Homo sapiens |
| 2242 | 194745 | G Protein-Coupled Receptor SLT/MCH2 | AAK32193.1 | 1907 | RRATEKEINNMGNTLKSHF | Homo sapiens |
| 2243 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2089 | CRIGEDTISQVMPLLIYA | Homo sapiens |
| 2244 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2090 | RRHWAFGDIPCRVGLFTL | Homo sapiens |
| 2245 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2091 | CESFIMESANGWHDIM | Homo sapiens |
| 2246 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2092 | CSFKIVWSLRRRQLARQAR | Homo sapiens |
| 2247 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2093 | RRRQLARQARMKKATR | Homo sapiens |
| 2248 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2094 | TVSSACDPSVHGALH | Homo sapiens |
| 2249 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2095 | CSLKPQPGHSHKTQRPEEM | Homo sapiens |
| 2250 | 194756 | Chemokine Receptor FKSG80/GPR81 | AAK29071.1 | 2096 | CISVANSFQSQSDGQWD | Homo sapiens |
| 2251 | 194757 | G Protein-Coupled Receptor Ls194757 | CAB82385.1 | 2034 | RTRKGHSEATNSSNRVFWYC | Homo sapiens |
| 2252 | 194757 | G Protein-Coupled Receptor Ls194757 | CAB82385.1 | 2035 | RVISQISADNYKIHGDPSA | Homo sapiens |
| 2253 | 194757 | G Protein-Coupled Receptor Ls194757 | CAB82385.1 | 2036 | TSSSARTSNAKPFHSD | Homo sapiens |
| 2254 | 194757 | G Protein-Coupled Receptor Ls194757 | CAB82385.1 | 2037 | NGTRPGMASTKLSPWD | Homo sapiens |
| 2255 | 194858 | G Protein-Coupled Receptor Ls194858 | LR84 | 1933 | LGIAWDRRLRSPAGC | Homo sapiens |
| 2256 | 194858 | G Protein-Coupled Receptor Ls194858 | LR84 | 1934 | GERYMAVLRPLQPPGS | Homo sapiens |
| 2257 | 194858 | G Protein-Coupled Receptor Ls194858 | LR84 | 1935 | CRDEPSALARALTWRQAR | Homo sapiens |
| 2258 | 194858 | G Protein-Coupled Receptor Ls194858 | LR84 | 1936 | AAQRCLQGWLWGRASRD | Homo sapiens |
| 2259 | 194858 | G Protein-Coupled Receptor Ls194858 | LR84 | 1937 | RDSPGPSIAVHPSSQSSVD | Homo sapiens |
| 2260 | 194878 | MrgX3 G Protein-Coupled Receptor Ls194858 | AAK91806.1 | 2748 | ALFSRIHLDWKVLF | Homo sapiens |

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| 2261 | 194903 | Receptor G Protein-Coupled Receptor GPCR83 | ENSP00000198236 | 1991 | CIAFKDIMPFSAQVGDER | Homo sapiens |
| 2262 | 194903 | G Protein-Coupled Receptor GPCR83 | ENSP00000198236 | 1992 | KAFEEAYARADKKAPRPC | Homo sapiens |
| 2263 | 194903 | G Protein-Coupled Receptor GPCR83 | ENSP00000198236 | 1993 | ETKIQWHGKDNQVPSVC | Homo sapiens |
| 2264 | 194903 | G Protein-Coupled Receptor GPCR83 | ENSP00000198236 | 1994 | CSYLKGLPENYNEAK | Homo sapiens |
| 2265 | 194904 | WO0034334-hFB41A | LR114 | 2011 | SDYDMPLEDEDEDVINS | Homo sapiens |
| 2266 | 194904 | WO0034334-hFB41A | LR114 | 2014 | NPHGAHATSPFNFYS | Homo sapiens |
| 2267 | 194905 | G Protein-Coupled Receptor MGC7035 | LR112 | 1986 | ERALPRTYMASVYNTRHVC | Homo sapiens |
| 2268 | 194905 | G Protein-Coupled Receptor MGC7035 | LR112 | 1987 | CAKMQNAEADATLVF | Homo sapiens |
| 2269 | 194905 | G Protein-Coupled Receptor MGC7035 | LR112 | 1988 | DRDTGRLEPSAHRLLVATVC | Homo sapiens |
| 2270 | 194905 | G Protein-Coupled Receptor MGC7035 | LR112 | 1989 | RYMNGSFPSKLQRLMKKLPC | Homo sapiens |
| 2271 | 194907 | G Protein-Coupled Receptor 14273 | LR116 | 2003 | CARAAAGDAPLRSLQANRIR | Homo sapiens |
| 2272 | 194907 | G Protein-Coupled Receptor 14273 | LR116 | 2004 | VISYSKILQTTKASRKRL | Homo sapiens |
| 2273 | 194907 | G Protein-Coupled Receptor 14273 | LR116 | 2005 | TVSLAYSRSHQIRVSQQD | Homo sapiens |
| 2274 | 194907 | G Protein-Coupled Receptor 14273 | LR116 | 2006 | CTWFPEKGAILDTSVKRND | Homo sapiens |
| 2275 | 194908 | G Protein-coupled Receptor Gpcrb4 | LR117 | 2007 | TYGRDNGQLLGERVARRDIC | Homo sapiens |
| 2276 | 194908 | G Protein-coupled Receptor Gpcrb4 | LR117 | 2008 | QETLPTLQPNQNMITSEERQIR | Homo sapiens |
| 2277 | 194908 | G Protein-coupled Receptor Gpcrb4 | LR117 | 2009 | RTSQSYTCNQECDNCLNAT | Homo sapiens |
| 2278 | 194908 | G Protein-coupled Receptor Gpcrb4 | LR117 | 2010 | RPQSHPRITDPPDDPKITVSC | Homo sapiens |
| 2279 | 194957 | Trace Amine Receptor 4 (TA4) | AAK71243.1 | 2312 | VARRQAKKIENTGSKT | Homo sapiens |
| 2280 | 194957 | Trace Amine Receptor 4 (TA4) | AAK71243.1 | 2313 | KVIVTGQVLKNSSA | Homo sapiens |

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| 2281 | 194957 | Trace Amine Receptor 4 (TA4) | AAK71243.1 | 2318 | MSSNSSLLVAVQLC | Homo sapiens |
| 2282 | 194958 | Trace Amine Receptor 5 (TA5) | AAK71244.1 | 2307 | IAKQQAIAKIETTSSKV | Homo sapiens |
| 2283 | 194958 | Trace Amine Receptor 5 (TA5) | AAK71244.1 | 2314 | MTSNFSQPVVQLC | Homo sapiens |
| 2284 | 194958 | Trace Amine Receptor 5 (TA5) | AAK71244.1 | 2319 | KLULSGDVLKAS | Homo sapiens |
| 2285 | 194958 | Trace Amine Receptor 5 (TA5) | AAK71244.1 | 2570 | SGDVLKASSSTISLFI | Homo sapiens |
| 2286 | 194989 | MrgX4 G Protein-Coupled Receptor | AAK91807.1 | 2727 | QDKPEVDKGGEGQLPEESL | Homo sapiens |
| 2287 | 194989 | MrgX4 G Protein-Coupled Receptor | AAK91807.1 | 2728 | LNISHLIRKILVS | Homo sapiens |
| 2288 | 194989 | MrgX4 G Protein-Coupled Receptor | AAK91807.1 | 2729 | MDPTVPVFGTKL | Homo sapiens |
| 2289 | 195015 | G Protein-Coupled Receptor GPR82 | AAL26482 | 2706 | RYATLMQKDSSETT | Homo sapiens |
| 2290 | 195015 | G Protein-Coupled Receptor GPR82 | AAL26482 | 2707 | KIFYGHLLKKFRQPNF | Homo sapiens |
| 2291 | 195015 | G Protein-Coupled Receptor GPR82 | AAL26482 | 2708 | YSVIEATEGEESLC | Homo sapiens |
| 2292 | 195015 | G Protein-Coupled Receptor GPR82 | AAL26482 | 2715 | CTSIMEKDLTYSSVKR | Homo sapiens |

| SEQ ID NO: | ID | Gene | Antibody Company Name |
|---------------|-----|---|-----------------------|
| 1 | 127 | 5-HT1A Receptor | Chemicon |
| 1 | 127 | 5-HT1A Receptor | Research Diagnostics |
| 1 | 127 | 5-HT1A Receptor | Santa Cruz |
| 3 | 128 | 5-HT1B Receptor | Chemicon |
| 3 | 128 | 5-HT1B Receptor | Research Diagnostics |
| 3 | 128 | 5-HT1B Receptor | Santa Cruz |
| 5 | 129 | 5-HT1D Receptor | Research Diagnostics |
| 5 | 129 | 5-HT1D Receptor | Santa Cruz |
| 11 | 132 | 5-HT2A Receptor | Calbiochem |
| 11 | 132 | 5-HT2A Receptor | Research Diagnostics |
| 13 | 133 | 5-HT2B Receptor | Research Diagnostics |
| 15 | 134 | 5-HT2C Receptor | Research Diagnostics |
| 15 | 134 | 5-HT2C Receptor | Santa Cruz |
| 21 | 139 | 5-HT7 Receptor | Calbiochem |
| 23 | 272 | Adenosine A1 Receptor | Alpha Diagnostic Int. |
| 23 | 272 | Adenosine A1 Receptor | Calbiochem |
| 23 | 272 | Adenosine A1 Receptor | Santa Cruz |
| 25 | 273 | Adenosine A2a Receptor | Alpha Diagnostic Int. |
| 25 | 273 | Adenosine A2a Receptor | Calbiochem |
| 25 | 273 | Adenosine A2a Receptor | Chemicon |
| 25 | 273 | Adenosine A2a Receptor | Santa Cruz |
| 27 | 274 | Adenosine A2b Receptor | Alpha Diagnostic Int. |
| 27 | 274 | Adenosine A2b Receptor | Chemicon |
| 27 | 274 | Adenosine A2b Receptor | Santa Cruz |
| 29 | 275 | Adenosine A3 Receptor | Alpha Diagnostic Int. |
| 29 | 275 | Adenosine A3 Receptor | Santa Cruz |
| 31 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | Alpha Diagnostic Int. |
| 31 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | Chemicon |
| 31 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | Research Diagnostics |
| 31 | 309 | Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R) | Santa Cruz |
| 35 | 377 | Alpha 1b-adrenoceptor | Research Diagnostics |
| 35 | 377 | Alpha 1b-adrenoceptor | Santa Cruz |
| 37 | 379 | Alpha 1c-adrenoceptor | Research Diagnostics |
| 37 | 379 | Alpha 1c-adrenoceptor | Santa Cruz |
| 39 | 387 | Alpha 2a-adrenoceptor | Calbiochem |
| 39 | 387 | Alpha 2a-adrenoceptor | Santa Cruz |
| 41 | 388 | Alpha 2b-adrenoceptor | Research Diagnostics |
| 41 | 388 | Alpha 2b-adrenoceptor | Santa Cruz |
| 43 | 389 | Alpha 2c-adrenoceptor | Research Diagnostics |
| 43 | 389 | Alpha 2c-adrenoceptor | Santa Cruz |
| 45 | 599 | Bradykinin B1 Receptor | Research Diagnostics |
| 49 | 635 | Beta-1 adrenoceptor | Calbiochem |
| 49 | 635 | Beta-1 adrenoceptor | Research Diagnostics |

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| 49 | 635 | Beta-1 adrenoceptor | Santa Cruz |
| 51 | 640 | Beta-2 adrenoceptor | Research Diagnostics |
| 51 | 640 | Beta-2 adrenoceptor | Santa Cruz |
| 53 | 643 | Beta-3 adrenoceptor | Alpha Diagnostic Int. |
| 53 | 643 | Beta-3 adrenoceptor | Chemicon |
| 53 | 643 | Beta-3 adrenoceptor | Research Diagnostics |
| 53 | 643 | Beta-3 adrenoceptor | Santa Cruz |
| 57 | 692 | Bombesin Receptor Subtype-3 | Alpha Diagnostic Int. |
| 57 | 692 | Bombesin Receptor Subtype-3 | Chemicon |
| 59 | 729 | CXC Chemokine Receptor 5 | Research Diagnostics |
| 59 | 729 | CXC Chemokine Receptor 5 | Santa Cruz |
| 61 | 735 | C-C Chemokine Receptor 1 | Calbiochem |
| 61 | 735 | C-C Chemokine Receptor 1 | Capralogics |
| 61 | 735 | C-C Chemokine Receptor 1 | Chemicon |
| 61 | 735 | C-C Chemokine Receptor 1 | Research Diagnostics |
| 61 | 735 | C-C Chemokine Receptor 1 | Santa Cruz |
| 63 | 737 | C-C Chemokine Receptor 3 | Research Diagnostics |
| 63 | 737 | C-C Chemokine Receptor 3 | Santa Cruz |
| 65 | 738 | C-C Chemokine Receptor 4 | Capralogics |
| 65 | 738 | C-C Chemokine Receptor 4 | Research Diagnostics |
| 65 | 738 | C-C Chemokine Receptor 4 | Santa Cruz |
| 67 | 741 | C-C Chemokine Receptor 7 | Research Diagnostics |
| 67 | 741 | C-C Chemokine Receptor 7 | Santa Cruz |
| 69 | 742 | C-C Chemokine Receptor 8 | Chemicon |
| 70 | 742 | C-C Chemokine Receptor 8 | Chemicon |
| 71 | 742 | C-C Chemokine Receptor 8 | Chemicon |
| 73 | 752 | CXC Chemokine Receptor 3 | Research Diagnostics |
| 73 | 752 | CXC Chemokine Receptor 3 | Santa Cruz |
| 73 | 752 | CXC Chemokine Receptor 3 | Zymed |
| 75 | 753 | CXC Chemokine Receptor 4 | Biosource |
| 75 | 753 | CXC Chemokine Receptor 4 | Calbiochem |
| 75 | 753 | CXC Chemokine Receptor 4 | Capralogics |
| 75 | 753 | CXC Chemokine Receptor 4 | Chemicon |
| 75 | 753 | CXC Chemokine Receptor 4 | eBioscience |
| 75 | 753 | CXC Chemokine Receptor 4 | Research Diagnostics |
| 75 | 753 | CXC Chemokine Receptor 4 | Santa Cruz |
| 77 | 755 | Complement Component 3a Receptor 1 | Chemokine.com |
| 79 | 758 | Complement Component 5a Receptor 1 | Santa Cruz |
| 83 | 832 | Cannabinoid Receptor 1 | Alpha Diagnostic Int. |
| 83 | 832 | Cannabinoid Receptor 1 | Biosource |
| 83 | 832 | Cannabinoid Receptor 1 | Calbiochem |
| 83 | 832 | Cannabinoid Receptor 1 | Cayman |
| 83 | 832 | Cannabinoid Receptor 1 | Chemicon |
| 83 | 832 | Cannabinoid Receptor 1 | Santa Cruz |
| 85 | 833 | Cannabinoid Receptor 2 | Alpha Diagnostic Int. |
| 85 | 833 | Cannabinoid Receptor 2 | Calbiochem |
| 85 | 833 | Cannabinoid Receptor 2 | Cayman |
| 85 | 833 | Cannabinoid Receptor 2 | Chemicon |
| 85 | 833 | Cannabinoid Receptor 2 | Santa Cruz |
| 97 | 1240 | Dopamine Receptor D1 | Alpha Diagnostic Int. |
| 97 | 1240 | Dopamine Receptor D1 | Biogenesis |

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| 97 | 1240 | Dopamine Receptor D1 | Calbiochem |
| 97 | 1240 | Dopamine Receptor D1 | Chemicon |
| 97 | 1240 | Dopamine Receptor D1 | FabGennix through Abcam |
| 97 | 1240 | Dopamine Receptor D1 | Research Diagnostics |
| 97 | 1240 | Dopamine Receptor D1 | Santa Cruz |
| 99 | 1241 | Dopamine Receptor D5 | Alpha Diagnostic Int. |
| 99 | 1241 | Dopamine Receptor D5 | Biogenesis |
| 99 | 1241 | Dopamine Receptor D5 | Calbiochem |
| 99 | 1241 | Dopamine Receptor D5 | Chemicon |
| 99 | 1241 | Dopamine Receptor D5 | Santa Cruz |
| 101 | 1242 | Dopamine Receptor D2 | Alpha Diagnostic Int. |
| 101 | 1242 | Dopamine Receptor D2 | Biogenesis |
| 101 | 1242 | Dopamine Receptor D2 | Calbiochem |
| 101 | 1242 | Dopamine Receptor D2 | Chemicon |
| 101 | 1242 | Dopamine Receptor D2 | DPC Biermann/Acris |
| 101 | 1242 | Dopamine Receptor D2 | FabGennix through Abcam |
| 101 | 1242 | Dopamine Receptor D2 | Research Diagnostics |
| 101 | 1242 | Dopamine Receptor D2 | Santa Cruz |
| 103 | 1243 | Dopamine Receptor D3 | Alpha Diagnostic Int. |
| 103 | 1243 | Dopamine Receptor D3 | Biogenesis |
| 103 | 1243 | Dopamine Receptor D3 | Calbiochem |
| 103 | 1243 | Dopamine Receptor D3 | Chemicon |
| 103 | 1243 | Dopamine Receptor D3 | Research Diagnostics |
| 103 | 1243 | Dopamine Receptor D3 | Santa Cruz |
| 103 | 1243 | Dopamine Receptor D3 | Zymed |
| 105 | 1244 | Dopamine Receptor D4 | Alpha Diagnostic Int. |
| 105 | 1244 | Dopamine Receptor D4 | Biogenesis |
| 105 | 1244 | Dopamine Receptor D4 | Calbiochem |
| 105 | 1244 | Dopamine Receptor D4 | Chemicon |
| 105 | 1244 | Dopamine Receptor D4 | DPC Biermann/Acris |
| 105 | 1244 | Dopamine Receptor D4 | Santa Cruz |
| 107 | 1267 | Opioid Receptor, delta 1 (OPRD1) | Biosource |
| 107 | 1267 | Opioid Receptor, delta 1 (OPRD1) | Calbiochem |
| 107 | 1267 | Opioid Receptor, delta 1 (OPRD1) | DPC Biermann/Acris |
| 107 | 1267 | Opioid Receptor, delta 1 (OPRD1) | Santa Cruz |
| 113 | 1486 | Endothelin B Receptor | Biogenesis |
| 113 | 1486 | Endothelin B Receptor | Capralogics |
| 113 | 1486 | Endothelin B Receptor | DPC Biermann/Acris |
| 113 | 1486 | Endothelin B Receptor | Fitzgerald Industries Int. |
| 113 | 1486 | Endothelin B Receptor | Research Diagnostics |
| 115 | 1488 | Endothelin A Receptor | Biogenesis |
| 115 | 1488 | Endothelin A Receptor | Capralogics |
| 115 | 1488 | Endothelin A Receptor | DPC Biermann/Acris |
| 115 | 1488 | Endothelin A Receptor | Fitzgerald Industries Int. |
| 115 | 1488 | Endothelin A Receptor | Research Diagnostics |
| 117 | 1598 | Calcium-Sensing Receptor (CASR) | Chemicon |
| 117 | 1598 | Calcium-Sensing Receptor (CASR) | DPC Biermann/Acris |

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| 121 | 1681 | Follicle Stimulating Hormone Receptor | Biogenesis |
| 121 | 1681 | Follicle Stimulating Hormone Receptor | DPC Biermann/Acris |
| 121 | 1681 | Follicle Stimulating Hormone Receptor | Santa Cruz |
| 125 | 1762 | Galanin Receptor GalR1 | Alpha Diagnostic Int. |
| 135 | 1925 | Gonadotropin-Releasing Hormone Receptor | Biocarta |
| 135 | 1925 | Gonadotropin-Releasing Hormone Receptor | Lab Vision Corporation/NeoMarkers |
| 135 | 1925 | Gonadotropin-Releasing Hormone Receptor | Research Diagnostics |
| 135 | 1925 | Gonadotropin-Releasing Hormone Receptor | Santa Cruz |
| 139 | 1951 | Growth Hormone Secretagogue Receptor | Santa Cruz |
| 143 | 2120 | Histamine H1 Receptor | Alpha Diagnostic Int. |
| 143 | 2120 | Histamine H1 Receptor | Chemicon |
| 145 | 2121 | Histamine H2 Receptor | Alpha Diagnostic Int. |
| 145 | 2121 | Histamine H2 Receptor | Chemicon |
| 147 | 2783 | Opioid Receptor, kappa 1 (OPRK1) | Biosource |
| 147 | 2783 | Opioid Receptor, kappa 1 (OPRK1) | Calbiochem |
| 147 | 2783 | Opioid Receptor, kappa 1 (OPRK1) | DPC Biermann/Acris |
| 147 | 2783 | Opioid Receptor, kappa 1 (OPRK1) | Santa Cruz |
| 151 | 2976 | Lysophosphatidic Acid Receptor Edg2 | Exalpha Biologicals |
| 155 | 3057 | Melanocortin 3 Receptor (MC3R) | Alpha Diagnostic Int. |
| 155 | 3057 | Melanocortin 3 Receptor (MC3R) | Chemicon |
| 155 | 3057 | Melanocortin 3 Receptor (MC3R) | Research Diagnostics |
| 155 | 3057 | Melanocortin 3 Receptor (MC3R) | Santa Cruz |
| 157 | 3058 | Melanocortin 4 Receptor (MC4R) | Alpha Diagnostic Int. |
| 157 | 3058 | Melanocortin 4 Receptor (MC4R) | Chemicon |
| 157 | 3058 | Melanocortin 4 Receptor (MC4R) | Research Diagnostics |
| 157 | 3058 | Melanocortin 4 Receptor (MC4R) | Santa Cruz |
| 159 | 3059 | Melanocortin 5 Receptor (MC5R) | Alpha Diagnostic Int. |
| 159 | 3059 | Melanocortin 5 Receptor (MC5R) | Chemicon |
| 159 | 3059 | Melanocortin 5 Receptor (MC5R) | Research Diagnostics |

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| 159 | | Melanocortin 5 Receptor (MC5R) | Santa Cruz |
| 161 | 3061 | Melanocortin 1 Receptor (MC1R) | Alpha Diagnostic Int. |
| 161 | 3061 | Melanocortin 1 Receptor (MC1R) | Chemicon |
| 161 | 3061 | Melanocortin 1 Receptor (MC1R) | Research Diagnostics |
| 161 | 3061 | Melanocortin 1 Receptor (MC1R) | Santa Cruz |
| 169 | 3093 | Metabotropic Glutamate Receptor 1 | Chemicon |
| 171 | 3094 | Metabotropic Glutamate Receptor 2 | Chemicon |
| 173 | 3095 | Metabotropic Glutamate Receptor 3 | Chemicon |
| 175 | 3096 | Metabotropic Glutamate Receptor 4 | Zymed |
| 177 | 3097 | Metabotropic Glutamate Receptor 5 | Chemicon |
| 183 | 3100 | Metabotropic Glutamate Receptor 8 | Chemicon |
| 185 | 3212 | Opioid mu-type Receptor | Biosource |
| 185 | 3212 | Opioid mu-type Receptor | Calbiochem |
| 185 | 3212 | Opioid mu-type Receptor | Chemicon |
| 185 | 3212 | Opioid mu-type Receptor | DPC Biermann/Acris |
| 185 | 3212 | Opioid mu-type Receptor | Santa Cruz |
| 187 | 3223 | Muscarinic acetylcholine Receptor M1 | Biogenesis |
| 187 | 3223 | Muscarinic acetylcholine Receptor M1 | Calbiochem |
| 187 | 3223 | Muscarinic acetylcholine Receptor M1 | Chemicon |
| 187 | 3223 | Muscarinic acetylcholine Receptor M1 | Santa Cruz |
| 189 | 3224 | Muscarinic acetylcholine Receptor M2 | Biogenesis |
| 189 | 3224 | Muscarinic acetylcholine Receptor M2 | Calbiochem |
| 189 | 3224 | Muscarinic acetylcholine Receptor M2 | Chemicon |
| 189 | 3224 | Muscarinic acetylcholine Receptor M2 | Santa Cruz |
| 191 | 3226 | Muscarinic acetylcholine Receptor M4 | Biogenesis |
| 192 | 3226 | Muscarinic acetylcholine Receptor M4 | Biogenesis |
| 191 | 3226 | Muscarinic acetylcholine Receptor M4 | Chemicon |
| 192 | 3226 | Muscarinic acetylcholine Receptor M4 | Chemicon |
| 191 | 3226 | Muscarinic acetylcholine Receptor M4 | Santa Cruz |

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| 192 | 3226 | Muscarinic acetylcholine Receptor M4 | Santa Cruz |
| 194 | 3227 | Muscarinic Acetylcholine Receptor M5 | Biogenesis |
| 194 | 3227 | Muscarinic Acetylcholine Receptor M5 | Santa Cruz |
| 200 | 3404 | Neuropeptide Y Receptor Type 2 | Biogenesis |
| 202 | 3405 | Neuropeptide Y Receptor Type 4 | Biogenesis |
| 206 | 3408 | Neurotensin Receptor Type 1 | Santa Cruz |
| 208 | 3452 | Opiate Receptor-Like 1 (OPRL1) | Santa Cruz |
| 214 | 3582 | Oxytocin Receptor | Santa Cruz |
| 216 | 3589 | Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2) | Chemicon |
| 216 | 3589 | Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2) | Zymed |
| 218 | 3595 | Purinergic Receptor P2Y1 | Chemicon |
| 218 | 3595 | Purinergic Receptor P2Y1 | Zymed |
| 228 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | Biocarta |
| 228 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | Lab Vision Corporation/NeoMarkers |
| 228 | 3640 | Parathyroid Hormone Receptor 1 (PTHr1) | Santa Cruz |
| 236 | 3846 | Sphingolipid Receptor Edg1 | Exalpa Biologicals |
| 238 | 3847 | Sphingolipid Receptor Edg3 | Exalpa Biologicals |
| 240 | 3848 | C-C Chemokine Receptor 9 | Research Diagnostics |
| 248 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | Chemicon |
| 248 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | Chemokine.com |
| 248 | 3852 | CX3C Chemokine Fractalkine Receptor 1 | eBioscience |
| 250 | 3853 | G Protein-Coupled Receptor GPR15 | Santa Cruz |
| 264 | 3860 | G Protein-Coupled Receptor SLC/MCH1 | Alpha Diagnostic Int. |
| 264 | 3860 | G Protein-Coupled Receptor SLC/MCH1 | Santa Cruz |
| 295 | 3927 | Prostaglandin E Receptor EP4 | Cayman |
| 299 | 4051 | Proteinase-Activated Receptor 2 | Research Diagnostics |
| 299 | 4051 | Proteinase-Activated Receptor 2 | Santa Cruz |
| 301 | 4052 | Proteinase-Activated Receptor 3 | Research Diagnostics |
| 301 | 4052 | Proteinase-Activated Receptor 3 | Santa Cruz |
| 305 | 4254 | Rhodopsin | Biocarta |
| 305 | 4254 | Rhodopsin | DPC Biermann/Acris |
| 311 | 4480 | Somatostatin Receptor Type 1 | Santa Cruz |

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| 313 | 4481 | Somatostatin Receptor Type 2 | Biogenesis |
| 313 | 4481 | Somatostatin Receptor Type 2 | Santa Cruz |
| 315 | 4482 | Somatostatin Receptor Type 3 | Santa Cruz |
| 317 | 4483 | Somatostatin Receptor Type 4 | Santa Cruz |
| 319 | 4484 | Somatostatin Receptor Type 5 | Santa Cruz |
| 321 | 4552 | Tachykinin Receptor 1 | Santa Cruz |
| 323 | 4687 | Thrombin Receptor | DPC Biermann/Acris |
| 323 | 4687 | Thrombin Receptor | Research Diagnostics |
| 323 | 4687 | Thrombin Receptor | Santa Cruz |
| 325 | 4734 | Thyrotropin Releasing Hormone Receptor | Santa Cruz |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Alpha Diagnostic Int. |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Biocarta |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Biogenesis |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Capralogics |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Chemicon |
| 327 | 4944 | Angiotensin II Type 1 Receptor | DPC Biermann/Acris |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Fitzgerald Industries Int. |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Fitzgerald Industries Int. |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Lab Vision Corporation/NeoMarkers |
| 327 | 4944 | Angiotensin II Type 1 Receptor | Santa Cruz |
| 329 | 4946 | Angiotensin II Type 2 Receptor | Alpha Diagnostic Int. |
| 329 | 4946 | Angiotensin II Type 2 Receptor | DPC Biermann/Acris |
| 329 | 4946 | Angiotensin II Type 2 Receptor | Santa Cruz |
| 331 | 5072 | Pyrimidinergic Receptor P2Y4 | Chemicon |
| 333 | 5117 | Vasopressin V1A Receptor | Chemicon |
| 335 | 5118 | Vasopressin V1B Receptor | Alpha Diagnostic Int. |
| 335 | 5118 | Vasopressin V1B Receptor | Chemicon |
| 337 | 5119 | Vasopressin V2 Receptor | Alpha Diagnostic Int. |
| 337 | 5119 | Vasopressin V2 Receptor | Chemicon |
| 337 | 5119 | Vasopressin V2 Receptor | Research Diagnostics |
| 347 | 6031 | SIV/HIV Receptor BONZO | Santa Cruz |
| 349 | 6204 | Lysophosphatidic Acid Receptor Edg4 | Exalpa Biologicals |
| 351 | 6213 | C-C Chemokine Receptor 5 | Calbiochem |
| 351 | 6213 | C-C Chemokine Receptor 5 | Capralogics |
| 351 | 6213 | C-C Chemokine Receptor 5 | Chemicon |
| 351 | 6213 | C-C Chemokine Receptor 5 | Research Diagnostics |
| 351 | 6213 | C-C Chemokine Receptor 5 | Santa Cruz |
| 361 | 6853 | Purinergic Receptor P2Y11 | Zymed |

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| 365 | 7221 | Galanin Receptor GalR2 | Alpha Diagnostic |
| 367 | 7246 | Orexin Receptor 1 | Alpha Diagnostic Int. |
| 369 | 7247 | Orexin Receptor 2 | Alpha Diagnostic Int. |
| 371 | 8436 | Platelet-Activating Factor Receptor | Cayman |
| 371 | 8436 | Platelet-Activating Factor Receptor | Santa Cruz |
| 377 | 9421 | Neuropeptide Y Receptor Type 1 | Biogenesis |
| 377 | 9421 | Neuropeptide Y Receptor Type 1 | DPC Biermann/Acris |
| 379 | 9834 | Corticotropin releasing factor Receptor 1 | Research Diagnostics |
| 379 | 9834 | Corticotropin releasing factor Receptor 1 | Santa Cruz |
| 385 | 14198 | Interleukin-8 Receptor B | Biosource |
| 385 | 14198 | Interleukin-8 Receptor B | R&D Systems |
| 385 | 14198 | Interleukin-8 Receptor B | Research Diagnostics |
| 385 | 14198 | Interleukin-8 Receptor B | Santa Cruz |
| 387 | 14641 | Calcitonin Receptor | Santa Cruz |
| 389 | 16041 | C-C Chemokine Receptor 6 | Research Diagnostics |
| 389 | 16041 | C-C Chemokine Receptor 6 | Santa Cruz |
| 391 | 16599 | Smoothed | Research Diagnostics |
| 391 | 16599 | Smoothed | Santa Cruz |
| 397 | 17535 | Gaba(b) Receptor 1 | Alpha Diagnostic Int. |
| 397 | 17535 | Gaba(b) Receptor 1 | Calbiochem |
| 397 | 17535 | Gaba(b) Receptor 1 | Chemicon |
| 397 | 17535 | Gaba(b) Receptor 1 | Santa Cruz |
| 423 | 37498 | Xenotropic and Polytropic Retrovirus Receptor (XPR1) | Santa Cruz |
| 435 | 54053 | Gaba(b) Receptor 2 | Alpha Diagnostic Int. |
| 435 | 54053 | Gaba(b) Receptor 2 | Chemicon |
| 439 | 56923 | Muscarinic acetylcholine Receptor M3 | Biogenesis |
| 439 | 56923 | Muscarinic acetylcholine Receptor M3 | Santa Cruz |
| 457 | 152201 | Thyrotropin Receptor | DPC Biermann/Acris |
| 457 | 152201 | Thyrotropin Receptor | Santa Cruz |
| 459 | 152245 | C-C Chemokine Receptor 2 | Research Diagnostics |
| 459 | 152245 | C-C Chemokine Receptor 2 | Santa Cruz |
| 461 | 152299 | Interleukin-8 Receptor A | Biosource |
| 462 | 152299 | Interleukin-8 Receptor A | Biosource |
| 461 | 152299 | Interleukin-8 Receptor A | R&D Systems |
| 462 | 152299 | Interleukin-8 Receptor A | R&D Systems |
| 461 | 152299 | Interleukin-8 Receptor A | Research Diagnostics |
| 462 | 152299 | Interleukin-8 Receptor A | Research Diagnostics |
| 461 | 152299 | Interleukin-8 Receptor A | Santa Cruz |
| 462 | 152299 | Interleukin-8 Receptor A | Santa Cruz |
| 468 | 159973 | Vasoactive Intestinal Polypeptide Receptor 1 | Exalpha Biologicals |
| 470 | 160040 | Vasoactive Intestinal Polypeptide Receptor 2 | Exalpha Biologicals |
| 472 | 160055 | Motilin Receptor (GPR38) | Santa Cruz |

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| 503 | 160228 | T-Cell Death-Associated Gene 8 (GPR65) | Santa Cruz |
| 507 | 160312 | Sphingolipid Receptor Edg5 | Exalpha Biologicals |
| 515 | 160329 | Proteinase-Activated Receptor 4 | Santa Cruz |
| 535 | 161214 | Galanin Receptor GalR3 | Alpha Diagnostic Int. |
| 537 | 161221 | Urotensin-II Receptor (GPR14) | Santa Cruz |
| 546 | 177168 | Cysteinyl Leukotriene CYSLT1 Receptor | Cayman |
| 548 | 177191 | Histamine H3 Receptor | Alpha Diagnostic Int. |
| 548 | 177191 | Histamine H3 Receptor | Chemicon |
| 552 | 180956 | Lysophosphatidic Acid Receptor Edg7 | Exalpha Biologicals |
| 562 | 189900 | Sphingolipid Receptor Edg8 | Exalpha Biologicals |
| 628 | 190774 | Histamine H4 Receptor | Alpha Diagnostic Int. |
| 628 | 190774 | Histamine H4 Receptor | Chemicon |
| 636 | 190955 | Leukotriene B4 Receptor BLT1 | Cayman |

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rately in electronic form and available upon request from
the International Bureau

(88) Date of publication of the international search report:
19 June 2003

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES
THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems,
methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known,
the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies
against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit
improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

WO 02/061087 A3

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 01/50107

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/705 C07K16/28 G01N33/53

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12N G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EMBL, SEQUENCE SEARCH, EPO-Internal, WPI Data, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | ZHOU FENG C ET AL: "Production and characterization of an anti-serotonin 1A receptor antibody which detects functional 5-HT1A binding sites." MOLECULAR BRAIN RESEARCH, vol. 69, no. 2, 8 June 1999 (1999-06-08), pages 186-201, XP002222431 ISSN: 0169-328X figure 1; table 1 --- -/-- | 1-10, 15-26 |

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

6 January 2003

Date of mailing of the international search report

08. 04. 2003

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Bucka, A

INTERNATIONAL SEARCH REPORT

Inte Application No
PU 17 01/50107

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|-----------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | <p>RAYMOND JOHN R ET AL: "Immunohistochemical mapping of cellular and subcellular distribution of 5-HT-1A receptors in rat and human kidneys." AMERICAN JOURNAL OF PHYSIOLOGY, vol. 264, no. 1 PART 2, 1993, pages F9-F19, XP001127496 ISSN: 0002-9513 the whole document, in particular figures 1, 3</p> | 1-10, 15-26 |
| Y | <p>--- VERDOT L ET AL: "PRODUCTION OF ANTI-PEPTIDE ANTIBODIES DIRECTED AGAINST THE FIRST AND THE SECOND EXTRACELLULAR LOOP OF THE HUMAN SEROTONIN 5-HT1A RECEPTOR" BIOCHIMIE, MASSON, PARIS, FR, vol. 76, no. 1, 1994, pages 165-170, XP008009332 ISSN: 0300-9084 the whole document</p> | 1-10, 15-26 |
| Y | <p>--- TODD E ANTHONY AND EFRAIAN C AZMITIA: "Molecular characterization of antipeptide antibodies against the 5-HT1A receptor: Evidence for state-dependent antibody binding." MOLECULAR BRAIN RESEARCH, vol. 50, no. 1-2, 15 October 1997 (1997-10-15), pages 277-284, XP002222432 ISSN: 0169-328X the whole document</p> | 1-10, 15-26 |
| A | <p>--- ECKARD C P ET AL: "CHARACTERISATION OF G-PROTEIN-COUPLED RECEPTORS BY ANTIBODIES" CURRENT MEDICINAL CHEMISTRY, BENTHAM SCIENCE PUBLISHERS BV, BE, vol. 7, no. 9, September 2000 (2000-09), pages 897-910, XP000984970 ISSN: 0929-8673 the whole document</p> | 1-10, 15-26 |
| A | <p>--- BACKSTROM JON R ET AL: "Generation of anti-peptide antibodies against serotonin 5-HT2A and 5-HT2C receptors." JOURNAL OF NEUROSCIENCE METHODS, vol. 77, no. 1, 7 November 1997 (1997-11-07), pages 109-117, XP002222433 ISSN: 0165-0270 the whole document</p> <p>--- -/--</p> | 1-10, 15-26 |

INTERNATIONAL SEARCH REPORT

Inte

al Application No

US 01/50107

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|------------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | <p>EASON MARGARET G ET AL: "Identification of a G-s coupling domain in the amino terminus of the third intracellular loop of the alpha-2A-adrenergic receptor: Evidence for distinct structural determinants that confer G-s versus G-i coupling." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 270, no. 42, 1995, pages 24753-24760, XP002222434 ISSN: 0021-9258 the whole document -----</p> | <p>1-10, 15-26</p> |

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US 01/50107

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 19 and 20 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-10, 15-26 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-10, 15-26, all partially

an isolated antigenic peptide having the amino acid sequence
SEQ ID NO: 692, nucleic acids encoding said peptide,
antibodies directed against said peptide, kits containing
said antibodies

Inventions 2 to 1600: claims 1-26,
all partially and in so far as applicable

each separate, individual invention relates to an isolated
antigenic peptide, nucleic acids encoding said peptide,
antibodies directed against said peptide, kits containing
said antibodies,
wherein invention 2 is represented by the peptide having the
amino acid sequence SEQ ID NO: 693,
invention 3 is represented by the peptide having the amino
acid sequence SEQ ID NO: 694,
continuing to invention 1600, which is represented by the
peptide having the amino acid sequence SEQ ID NO: 2292

Invention 1601: claims 27-66

a method of identifying an amino acid sequence of an
antigenic peptide derived from a candidate polypeptide,
peptides identified by that method, antibodies directed
against said peptides



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